

POINT RUSTON

5219 N. SHIRLEY ST. SUITE 100 RUSTON, WA 98407

January 15, 2013

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RECEIVED

JAN 16 2013

OFFICE OF
ENVIRONMENTAL CLEANUP

RE: Monthly Report: No. 199, December 2012
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. The report is organized to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,



Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Steve Teel - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



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Monthly Report 199, December 2012
Operable Unit 02
Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Point Ruston personnel and its contractors hosted numerous meetings and conversations with EPA over the month of December, along with many electronic communications related to varying aspects of the project. Work continued on many various RA tasks, including work associated with the following projects:
 - Phase 1 CMP
 - Waterwalk CMP
 - Temporary Cap & Storm Water Management Plan
 - Sequence of Development Plan & Occupancy Plan
 - Occupancy Air Monitoring Plan
 - Long Term OMMP
 - CC&Rs
 - Metro Parks Peninsula Park CMP
 - DNR Sediment Cap RD
2. Point Ruston continued to conduct Air Monitoring per the approved plan under the CH&SP, and has also submitted a new air monitoring plan related to occupancy of the site. Point Ruston is in the process of installing the additional hi-vols and purchasing the additional real-time monitors.
3. Point Ruston and its contractors continued construction of the improvements associated with Phase 1 CMP. Point Ruston is working on a final Phase 1 RA Construction Report and has submitted a Phase 1 Occupancy plan, which includes a specific Contingency Plan for residential occupants.
4. Point Ruston has submitted a plan for opening the Waterwalk to public access and use, which includes a Contingency Plan for such public access and use. We continue to work on the Waterwalk RA Construction Report, which will be submitted to EPA in January.
5. Point Ruston continued to perform all site maintenance and monitoring, including all requirements under the Site Wide Construction Health and Safety Plan.
6. Point Ruston continued weekly site-inspection reports (see attached).
7. Point Ruston maintained clean work areas and roads, including fencing and CRZ connections between site units.

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8. Point Ruston conducted training activities for site visitors and workers, including the following:
 - Site Safety Orientations (Clean Zone) were held for:
 - i. Four hundred ten (410) site visitors and personnel of various companies
 - HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - i. One (1) Point Ruston employee
 - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. One (1) J.W. Morrisette & Assoc. employee
 - ii. One (1) Point Ruston employee
 - iii. Five (5) NW Linings employees
 - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - i. One (1) Hydrometrics employee

B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.

1. Stormwater Outfall sampling, data and related activities include the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North and South Outfalls, Point Ruston monitors an existing upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Samples were collected by Point Ruston from the outfall locations on December 10th, 17th, 24th and 31st. Results from samples collected are attached. There were no exceedances.

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2. OCF leachate sampling, data, disposal and related activities include the following:

Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. The OCF OMMP requires inspections to correspond with monthly, quarterly, or semi-annual reporting intervals as specified by the Response Action Plan. However, Point Ruston inspects LCRS and LDCRS volumes daily. LCRS volumes currently average approximately 95 gallons per day. Point Ruston currently ships 4,700-5,000 gallons approximately every 50 days. Leachate disposal was not required in December.

3. Air Monitoring, sampling, data and related activities include the following:

Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston does not conduct perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring resumes when the weather allows the site to dry out. Results for samples collected November 26th through December 28th are attached. There were no exceedances.

Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1) (a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in December.

4. Methane gas monitoring sampling, data and related activities include the following:

Point Ruston performs subsurface methane gas monitoring pursuant to the EPA approved "Building 2B Sampling & Analysis Plan – Subsurface Gas Monitoring Activities" plan. In 2009 a passive gas extraction system was installed in conjunction with the 2B-West building foundation. Four (4) vent pipes were roughed-in through the floor slab. In 2011 Point Ruston installed four (4) gas monitoring wells within the future boundaries of the 2B-East foundation and began monitoring for methane at all eight (8) locations (4 passive vent pipes; 4 wells). Sampling at these locations has been ongoing, pursuant to ASTM E2600. On October 9, 2012 the four (4) gas monitoring wells within the boundaries of the 2B-East building foundation were plugged and abandoned. Methane monitoring for the month of December was conducted at the remaining four (4) locations of the passive gas extraction system under the 2B-West building foundation. The Gas Monitoring Data Log

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and field worksheet for the month of December are attached. No methane has been detected to date. Methane monitoring of the passive extraction system will continue.

5. Miscellaneous soil sampling, data and related activities include the following:

Point Ruston performs miscellaneous on-site soil sampling related to its various ongoing RA work and development. Analysis results are attached.

Soil sampling was conducted on December 3rd common borrow material imported by barge.

Soil sampling was conducted on December 4th from common borrow material imported by barge.

Soil sampling was conducted on December 6th crushed gravel material imported by truck and trailer.

Soil sampling was conducted on December 19th crushed gravel material imported by truck and trailer.

C. Work Plans and other deliverables completed and submitted during the previous month.

1. Plans and Documents included the following:

Temporary Cap Plan & Site-Wide Storm Water Plan

EPA approved the conceptual temporary cap plan and storm water plan, including plans and specifications, and approved the installation of the system on the south end of the site. A formal Temporary Cap and Site-Wide Storm Water Plan is being updated, reflecting this approved concept, which will be resubmitted as soon as possible.

Construction Health & Safety Plan v.6 (CH&SP)

This plan was submitted to EPA, and comments have been received. Point Ruston is drafting responses and anticipates finalizing responses soon. This will be finalized after the approval of occupancy documents.

Waterwalk CMP

This plan was approved by EPA. Point Ruston is responding to final comments from the City of Tacoma. A plan for opening the Waterwalk to public access and use is drafted, which includes a Contingency Plan for such

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public access and use. The Waterwalk Access and Use Plan was submitted on December 6, 2013. The RA work along the Waterwalk is complete and Point Ruston is finalizing some of the last aspects of the public amenities, working on the Waterwalk RA Construction Report, and plans to open the Stage 1 area as soon as possible. Stage 2 access and use is tentatively scheduled to coordinate with the opening of the Copperline project being built under the Phase 1 CMP.

Phase 1 Construction Management Plan (CMP)

Point Ruston submitted minor updates to the Phase 1 CMP to EPA on 12/19/12. Point Ruston is working on a Phase I RA Construction Report and the Phase I Occupancy Plan has been submitted, which includes a specific Contingency Plan for residential occupants. Final hardscape site work is scheduled to be completed in January, and Point Ruston is working towards first occupancy in February.

Master Infrastructure CMP (MICMP)

Construction of the MICMP is substantially complete, with minor punch list items being completed. Point Ruston will be submitting a design addendum related to the abandonment of the tunnel. Point Ruston will submit a final construction report to EPA in January for its review and final inspection related to Certification of Completion for this phase of work, which include a final opportunity to review final as-builts. EPA also updated its paperwork, granting a formal, written approval of the Health & Safety Plan for occupancy on 12/18/12.

Ruston Way CH&SP Plan

Completed and submitted to EPA for Ruston Way opening. Approved, and roadway opened in June 29th. EPA granted formal, written approval of the plan on 12/18/12.

Sequence of Development and Occupancy Plan (SDOP)

The SDOP submitted to EPA, to include a new Contingency Actions section, per EPA request. The plan includes an updated occupancy air monitoring plan.

Operations Maintenance and Monitoring Plan (OMMP)

The OMMP was submitted to EPA on 09/04/2012. Point Ruston is awaiting final approval. Point Ruston did enter into a final cost sharing agreement with the City of Tacoma regarding the extra-ordinary costs associated with O&M of the public components associated with the MICMP.

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CC&Rs

The environmental CC&Rs were submitted to EPA on 09/04/2012. Point Ruston is awaiting final approval.

Biological Assessment South Outfall Construction (Edwards Street)/ BA South Outfall Flow (Edwards Street)

The BA was completed and approved, and the outfall was successfully constructed.

BA Shoreline Stabilization RA

Post-inspection completion report has been drafted and will be submitted to EPA following final armoring conducted as part of the Peninsula Park CMP.

Sediment Capping RD

Point Ruston submitted updates to the plans and specifications to reflect new terms of DNR agreements on 12/19 and EPA approved this RD on 12/19 upon issuance of its Water Quality Certification. Point Ruston and EPA finalized the plans and specs and this project is scheduled to be implemented during the current fish window. Notice sent to USCG on 12/19, and construction is set to begin on January 2, 2013. A pre-construction meeting including EPA, Point Ruston's contractor Pacific Pile & Marine, the IQAT team from Anchor QEA, and the design engineers from Hydrometrics was held on 12/27/2012.

Peninsula Park CMP

Peninsula Park CMP was submitted to EPA on 09/04/12. Pre-construction work will begin in anticipation of final Peninsula Park CMP approval, with preliminary grading and SAP of import materials being conducted first. EPA submitted comments to Point Ruston on 10/9/2012, and Point Ruston responded to EPA on 10/10/2012. Point Ruston held a preconstruction meeting on 10/11/2012. EPA submitted additional comments to Point Ruston on 12/04/2012. Point Ruston will resubmit revised CMP addressing EPA comments; however RA work has been delayed by the wet weather.

2. Remedial Action included the following tasks:

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OCF construction activities:

Maintained leachate collection system; Inspected storm drain system, vaults and cover; Maintained the temporary storage area, related to site-wide grading and Temporary Cap construction. Point Ruston agreed with the Town of Ruston to move the materials and equipment away from the frontage of The Commencement apartment building. Material and equipment relocating has begun and will continue as weather and resources allow.

Stack Hill construction activities:

Maintain lot grading and final cover in clean, final RA form. A damaged street light pole was replaced on Tract A.

Phase 1 CMP

Continued RA construction of utility connections and final roadway subgrade for permanent cap subgrade, including along view corridors and Main Street. Completed footing construction of 2B-East foundation and commenced plumbing groundwork.

Waterwalk CMP

Complete work and open Stage 1 for public access and use. Work is ongoing, including construction of the lateral spreader storm water system, and completion of the liner, marker layer and cover soils along the extent of the project. Topsoil placement and irrigation system installation, and final landscape installation is nearing completion. Final prep for public amenities foundations is on-going, as is installation of the buffer and perimeter fencing. Final RA is complete. Establishment of rock monuments and install tile mosaic hardscapes continues, and BMPs and CH&SP zones are continuously monitored and maintained.

Temporary Impervious Cap and Construction Stormwater Management Plan

Implement the cap in conjunction with the opening and use plan for the Waterwalk, and work westward across the site to implement the temporary cap. Temporary Impervious Cap (TIC) areas F, I and partial area H were completed in December.

Site-wide remediation/redevelopment activities:

- Continued surface water controls
- Maintained onsite haul roads and stockpiles
- Maintained erosion and surface water controls; Inspected and repaired silt fence and exclusion zone fencing.

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- Continued site-wide dust monitoring and control through site and access road watering, as needed.
- Maintained air-monitoring program per CH&SP requirements
- Continued to maintain Ruston Way Construction Health and Safety protocols, including air monitoring, dust suppression, buffer zone maintenance, fencing and signage.

D. *Actions scheduled for the next six weeks.*

1. Point Ruston to maintain the Ruston Way Health and Safety protocols, including applying tacifier to all buffer areas with exposed soils, and continuing to monitor for dust.
2. Point Ruston to continue construction of Waterwalk CMP improvements and work to open the First Stage to public occupancy as a test of the site wide SDOP and Institutional Controls.
3. Point Ruston and EPA finalizing RD approvals for the following plans and documents:
 - Peninsula Park CMP
 - Sediment Cap Remedial Design
 - OMMP
 - SDOP
 - Temporary Cap Plan and SWP
 - Institutional Controls/CC&Rs
 - Phase 1 CMP (updated)
 - CH&SP v.6
4. Continue construction of Temporary Cap and Site Wide Storm System, including construction of swales and anchor trenches, as well as layout of interim stormwater system, temporary liner(s) and cover system. Ordering of all materials will be finalized and with cooperating weather the TIC will be installed
5. Continue CH&SP air monitoring during RA activities also TSP sampling and analysis and correlating the data for eventual data-ram analysis during occupancy.
6. Continue to implement terms of the settlement with Metro Parks Tacoma and the State of Washington regarding the off-site remedial action required under the Consent Decree.

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The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance, and maintain roads and landscaping, including mowing, and keep and maintain the landscaping.
- b. Continue sales & marketing efforts for custom home construction

Site-wide construction activities:

- a. Maintain roads and stockpiles onsite
- b. Maintain erosion controls
- c. Complete site wide grading and placement of onsite stockpiles and soils in advance of subgrade construction and compaction.
- d. Maintain erosion control BMPs and CH&SP standards

Phase 1 CMP

- a. Continue vertical construction
- b. Continue utility construction
- c. Continue roadway construction
- d. Continue final cap RA construction
- e. Maintain erosion control BMPs and CH&SP standards

Waterwalk CMP

- a. Continue construction of Waterwalk improvements, finalizing First Stage for public access and use and prepping for next stage to open for public access and use.
- b. Maintain erosion control BMPs and CH&SP standards

Temporary Impervious Cap and Construction Stormwater Management Plan

- a. Continue final mass grading
- b. Stormwater construction
- c. Installation of temporary cap materials, including liner(s) and gravel or sandbag cover system

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E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

Final approval of TIC/SW plans and completion of approved SDOP and completion of EPA negotiations on RA schedule modifications and associated matters.

F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston and EPA agreed to begin final negotiations of a Consent Decree amendment to include updates to the SOW Schedule , in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site. Discussions are on-going.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues negotiations, design and conclusion of the sale of Waterwalk property and finalizing of the LID assessment roles with the City of Tacoma.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site..

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WEEKLY
SITE
INSPECTION
REPORTS

Reference	Date	Description
GEN2012-1202	12/02 – 12/08	General Site Weekly Inspection Report
SH2012-1202	12/02 – 12/08	Stack Hill Weekly Inspection Report
STR2012-1202	12/02 – 12/08	Streets Weekly Inspection Report
TIC2012-1202	12/02 – 12/08	Temporary Impermeable Cap Weekly Inspection Report
WW2012-1202	12/02 – 12/08	Waterwalk Weekly Inspection Report
GEN2012-1209	12/09 – 12/15	General Site Weekly Inspection Report
SH2012-1209	12/09 – 12/15	Stack Hill Weekly Inspection Report
STR2012-1209	12/09 – 12/15	Streets Weekly Inspection Report
TIC2012-1209	12/09 – 12/15	Temporary Impermeable Cap Weekly Inspection Report
WW2012-1209	12/09 – 12/15	Waterwalk Weekly Inspection Report
GEN2012-1216	12/16 – 12/22	General Site Weekly Inspection Report
SH2012-1216	12/16 – 12/22	Stack Hill Weekly Inspection Report
STR2012-1216	12/16 – 12/22	Streets Weekly Inspection Report
TIC2012-1216	12/16 – 12/22	Temporary Impermeable Cap Weekly Inspection Report
WW2012-1216	12/16 – 12/22	Waterwalk Weekly Inspection Report
GEN2012-1223	12/23 – 12/29	General Site Weekly Inspection Report
SH2012-1223	12/23 – 12/29	Stack Hill Weekly Inspection Report
STR2012-1223	12/23 – 12/29	Streets Weekly Inspection Report
TIC2012-1223	12/23 – 12/29	Temporary Impermeable Cap Weekly Inspection Report
WW2012-1223	12/23 – 12/29	Waterwalk Weekly Inspection Report



GENERAL SITE

Weekly Site Inspection Report No. **GEN 2012-1202**

Week of: **12/ 2 – 12/ 8, 2012**

Inspector: Tim RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						(See "Streets" Report for additional gates)
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Security:						
Locks	(G)	F	P	Y	(N)	
Alarms	(G)	F	P	Y	(N)	
Cameras	(G)	F	P	Y	(N)	
BMPs:						
Silt Fence	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Nursery:						
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	F	P	Y	(N)	
Weeds	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	ON GOING MAINTENANCE
CRZs:						
Area D	(G)	F	P	Y	(N)	
(Other)	(G)	F	P	Y	(N)	
Haul Roads:						
Main Street	(G)	F	P	Y	(N)	
Grand Ave.	(G)	F	P	Y	(N)	
OCF road	(G)	F	P	Y	(N)	
Metr.Pks-Peninsula	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

GENERAL SITE - Weekly Site Inspection Report No. GEN 2012- 1202

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

Air Monitoring:


Day of Week	Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun	2	0	0	NO RA ACTIVITY
Mon	3	0	0	OFFLOAD BARGE #53 / WATERLINE FOR W.W. / 2A DRIVEWAY STORM DRAINS
Tue	4	0	0	OFFLOAD BARGE #54 / WATERWALK (PREP FOR LINE) / BLONG. 2A DRIVEWAY STORM DRAINS
Wed	5	0	0	HIGHROAD MOUNT (GRADING) / EXCAVATING / CLEANUP MM 2 (NORTH END)
Thu	6	0	1	GRAND PLAZA (BIG TOY INSTALL) / WATERWALK (PLASTIC + TOPSOIL) / 2BE (GRADING) / 2A DRIVEWAY STORM DRAINS
Fri	7	0	1	" " / 2A DRIVEWAY STORM DRAIN / WATERWALK ASPHALT PREP.
Sat	8	0	0	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	2	42°/48°:SSW WIND 7MPH / GUST 20MPH, PRECIP. 0.25" (SCATTERED)
Mon	3	43°/49°:SSW WIND 4MPH / GUST 21MPH, PRECIP. 0.53" (SCATTERED)
Tue	4	44°/52°:SSW WIND 7MPH / GUST 21MPH, PRECIP. 0.69" (SCATTERED)
Wed	5	38°/47°:SSW WIND 16MPH / GUST 19MPH, PRECIP. 0.05" (MORN & EVE)
Thu	6	40°/43°:SSW WIND 16MPH / GUST 15MPH, PRECIP. 0.2" (MORN-AFTERNOON)
Fri	7	40°/45°:SW WIND 7MPH / GUST 18MPH, PRECIP. 0.15" (MORNING)
Sat	8	38°/43°:SW WIND 3MPH / GUST 13MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12/10/2012

SIGNED: 

H&S OFFICER: DATE: 12/10/12

SIGNED: 



STACK HILL

Weekly Site Inspection Report No. SH 2012- 1202

Week of: 12/2 - 12/8, 2012

Inspector: Harry Shugrue

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Villard St.	<u>G</u>	F	P	Y	<u>N</u>	
Court St.	<u>G</u>	F	P	Y	<u>N</u>	
Commercial St.	<u>G</u>	F	P	Y	<u>N</u>	
Baltimore St.	<u>G</u>	F	P	Y	<u>N</u>	
49 th St.	<u>G</u>	F	P	Y	<u>N</u>	
Tract A (private)	<u>G</u>	F	P	Y	<u>N</u>	
Lot #18 (private)	<u>G</u>	F	P	Y	<u>N</u>	
View Point:						
Parking Pad	<u>G</u>	F	P	Y	<u>N</u>	
Gravel Path	<u>G</u>	F	P	Y	<u>N</u>	
Display Boards	<u>G</u>	F	P	Y	<u>N</u>	
Storm Drains Clean:						
Catch Basins	<u>G</u>	F	P	Y	<u>N</u>	
BMPs:						
Hydroseed	<u>G</u>	F	P	Y	<u>N</u>	
(Other)	<u>G</u>	F	P	Y	<u>N</u>	
Sidewalks:						
Damage	<u>G</u>	F	P	Y	<u>N</u>	
Weeds	<u>G</u>	F	P	Y	<u>N</u>	
Signage:						
Perimeter "Advisory"	<u>G</u>	F	P	Y	<u>N</u>	
No Trespass (Tunnel Hillside)	<u>G</u>	F	P	Y	<u>N</u>	
Dust:						
Excavation Areas	<u>G</u>	F	P	Y	<u>N</u>	
Fencing:						
4' Site Perimeter	<u>G</u>	<u>F</u>	P	Y	<u>N</u>	
6' Temp. Panels	<u>G</u>	F	P	Y	<u>N</u>	
Street Lights:						
Condition	<u>G</u>	F	P	Y	<u>N</u>	
Site Markers:						
Lot Numbers	<u>G</u>	F	P	Y	<u>N</u>	
Utilities	<u>G</u>	F	P	Y	<u>N</u>	
Survey Stakes	<u>G</u>	F	P	Y	<u>N</u>	
Retaining Walls:						
Baltimore	<u>G</u>	F	P	Y	<u>N</u>	
Lots 22/23/24	<u>G</u>	F	P	Y	<u>N</u>	

G=Good F=Fair P=Poor Y=Yes N=No

STACK HILL - Weekly Site Inspection Report No. SH 2012- 1202
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

light post is down on Villard St.
Cleared catch basins

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12-07-2012

SIGNED: Harry Slaughter

H&S OFFICER: DATE: 12/10/12

SIGNED: [Signature]



STREETS

Weekly Site Inspection Report No. STR 2012- 1202

Week of: 12 / 2 - 12 / 8 , 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Surface	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Splitter Islands	G	F	P	Y	N	
Barricades	G	F	P	Y	N	
Signage:						
Trespass	G	F	P	Y	N	
Advisory	G	F	P	Y	N	
Traffic	G	F	P	Y	N	
Marketing	G	F	P	Y	N	
Street Lights:						
Ruston Way	G	F	P	Y	N	
51 st Street	G	F	P	Y	N	
Baltimore	G	F	P	Y	N	
Yacht Club	G	F	P	Y	N	
Junction Boxes	G	F	P	Y	N	
Storm Drains:						
Curb/Gutter	G	F	P	Y	N	Cleared catch basins
CBs	G	F	P	Y	N	
Filterrass	G	F	P	Y	N	
Sidewalks:						
Paint	G	F	P	Y	N	
Crossings	G	F	P	Y	N	
Bollards	G	F	P	Y	N	
Landscaping:						
Trees	G	F	P	Y	N	
Plants	G	F	P	Y	N	
Sprinkler	G	F	P	Y	N	
Bark/Mulch	G	F	P	Y	N	
Roundabouts:						
Grand	G	F	P	Y	N	
Yacht Club	G	F	P	Y	N	
Features:						
Wall/Rail	G	F	P	Y	N	
Development Sign	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

STREETS - Weekly Site Inspection Report No.STR 2012- 1202**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

Gates:					
Cooling Pond – West	(G)	F	P	Y	(N)
Cooling Pond – North	(G)	F	P	Y	(N)
Lot #12	(G)	F	P	Y	(N)
Lot #10 – West	(G)	F	P	Y	(N)
Lot #10 – North	(G)	F	P	Y	(N)
BNSF – A	(G)	F	P	Y	(N)
OSW02	(G)	F	P	Y	(N)
Grand – East	(G)	F	P	Y	(N)
Grand – West	(G)	F	P	Y	(N)
Cascade	(G)	F	P	Y	(N)
Yacht Club – North	(G)	F	P	Y	(N)
Yacht Club – South	(G)	F	P	Y	(N)

Other:					
Roundabouts	(G)	F	P	Y	(N)
Jersey Barriers	(G)	F	P	Y	(N)
Baltimore Bridge	(G)	F	P	Y	(N)

Misc. notes:

Cleared catch basin on Baltimore Bridge

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12-07-2012

SIGNED: Harry J. Shultz

REVIEWED: DATE: 12/10/12

SIGNED: [Signature]



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2012- 1202

Week of: 12/12 - 12/18, 2012 Inspector: PAT WILDER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area A								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	
Area B								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	
Area C								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	small areas standing water
	G	F	P	Y	N	Y	N	
Area D								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	some standing water
	G	F	P	Y	N	Y	N	
Area E								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	small areas standing water
	G	F	P	Y	N	Y	N	
Area F								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	water in trench pumped to G
	G	F	P	Y	N	Y	N	
Area G								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	water in trench + sand pumped to F
	G	F	P	Y	N	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

TEMPORARY CAP - Weekly Site Inspection Report No. 2012-1202
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area H								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	
Area I								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	water from F+G drained to sump
Area J								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12/8/12

SIGNED: [Signature]

REVIEWED: DATE: 12/10/12

SIGNED: [Signature]



WATERWALK

Weekly Site Inspection Report No. WW 2012-1202

Week of: 12/02 - 12/08, 2012 Inspector: Tim Rasher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
	(MM) Good	(DD) Fair	(MM) Poor	(DD) Yes	No	
Paths:						
Asphalt	(G)	F	P	Y	(N)	
Gravel	(G)	F	P	Y	(N)	
Signage:						
Trespass	(G)	F	P	Y	(N)	
Advisory	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Street Lights:						
Junction Boxes	(G)	F	P	Y	(N)	
Poles	(G)	F	P	Y	N	POLES PENDING INSTALLATION
Bulbs	G	F	P	Y	N	
Banners	G	F	P	Y	N	
Storm Drains:						
Area Drains	(G)	F	P	Y	(N)	
Clean Outs	(G)	F	P	Y	(N)	
Octopus:						
Tile	(G)	F	P	Y	(N)	
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #1:						
Tile	(G)	F	P	Y	(N)	
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #2:						
Tile	G	F	P	Y	N	INCOMPLETE
Grout	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Intersection #3:						
Tile	G	F	P	Y	N	INCOMPLETE
Grout	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Intersection #4:						
Tile	G	F	P	Y	N	INCOMPLETE
Grout	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Sprinkler:						
Heads	(G)	F	P	Y	(N)	ABOUT 75% COMPLETE
Valve Boxes	(G)	F	P	Y	(N)	

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Landscaping:	Good	Fair	Poor	Yes	No	
Trees	(G)	F	P	Y	(N)	
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	F	P	Y	(N)	
Bark/Mulch	(G)	F	P	Y	N	SOME GRASS AREAS NEED PATCHING
Hardware:	Good	Fair	Poor	Yes	No	
Cleat Benches	G	F	P	Y	N	PENDING INSTALLATION
Tables	G	F	P	Y	N	"
Trash Cans	G	F	P	Y	N	"

Gates:	Good	Fair	Poor	Yes	No	
Ferry – South	(G)	F	P	Y	(N)	INSTALLED 12/4/12 ACROSS W.W.
TIC – I/H	G	F	P	Y	N	PENDING
Intersection #1	G	F	P	Y	N	PENDING
Intersection #2	G	F	P	Y	N	PENDING
Intersection #3	G	F	P	Y	N	"
Grand Plaza	G	F	P	Y	N	"
Intersection #4	G	F	P	Y	N	"
Peninsula - North	(G)	F	P	Y	(N)	

Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	(G)	F	P	Y	(N)	CONDUIT INSTALLED IN CONC.
Concrete	(G)	F	P	Y	(N)	
Rails	G	F	P	Y	N	PENDING

Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	G	F	P	Y	N	STAGING BLOCKS + PREP FOR W.W.
Swings	(G)	F	P	Y	(N)	
Chips	G	F	P	Y	N	PENDING

Other:	Good	Fair	Poor	Yes	No	
Coyotes	(G)	F	P	Y	(N)	(ONE MISSING TAIL)
Tide Pool	(G)	F	P	Y	(N)	CONTAINMENT BOOM NEEDS REMOVED

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12/10/12

SIGNED:

REVIEWED: DATE:

12/10/12

SIGNED:



GENERAL SITE

Weekly Site Inspection Report No. **GEN 2012-1209**

Week of: **12/ 9 – 12/ 15, 2012**

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						(See "Streets" Report for additional gates)
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Security:						
Locks	(G)	F	P	Y	(N)	
Alarms	(G)	F	P	Y	(N)	
Cameras	G	(F)	P	Y	(N)	
BMPs:						
Silt Fence	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Nursery:						
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	F	P	(Y)	N	Needs WINTERIZED
Weeds	(G)	(F)	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	CONTINUOUS MAINTENANCE
CRZs:						
Area D	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Haul Roads:						
Main Street	(G)	F	P	Y	(N)	
Grand Ave.	(G)	F	P	Y	(N)	
OCF road	(G)	F	P	Y	(N)	
Metr.Pks-Peninsula	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

GENERAL SITE - Weekly Site Inspection Report No. GEN 2012- 1209

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun 9	0	0	0	NO RA ACTIVITY
Mon 10	3	0	1	2A STORM DRAIN WORK ALONG MAIN ST. / T.I.C.-F (STORM DRAIN) / T.I.C.-I (LINER INSTALL)
Tue 11	3	0	1	" " " PLANTING ON NURSERY
Wed 12	3	0	0	WATERWALK SPREADING TOPSOIL / T.I.C.-H (PREP FOR LINER) / WATERWALK PAVING / T.I.C.-I (LINER COVER)
Thu 13	3	0	0	" " T.I.C.-H (INSTALL LINER) / 2A (GRADING PREP FOR HARDSCAPES) / 2B STORM
Fri 14	3	0	0	2A (GRADING MAIN ST.) / WATERWALK (TOPSOIL) / T.I.C.-H (LINER COVER)
Sat 15	3	0	0	2A (GRADING MAIN ST.) / WATERWALK (COVER LINER) / 2B E (FOUNDATION WORK)

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 9	37°/44°	SSW WIND 1 MPH/GUST 6 MPH, PRECIP. 0.12" (EVE)
Mon 10	41°/44°	WNW WIND 2 MPH/GUST 10 MPH, PRECIP. 0.07" (SCATTERED)
Tue 11	40°/45°	SSW WIND 6 MPH/GUST 13 MPH, PRECIP. 0.1" (AFTERNOON)
Wed 12	39°/44°	SW WIND 3 MPH/GUST 9 MPH, PRECIP. 0.03" (MORNING)
Thu 13	37°/44°	SSW WIND 2 MPH/GUST 9 MPH, PRECIP. 0.12" (LATE EVE)
Fri 14	33°/42°	SW WIND 2 MPH/GUST 9 MPH, PRECIP. 0.22" (EARLY MORN)
Sat 15	32°/41°	SSW WIND 5 MPH/GUST 14 MPH, PRECIP. 0.12" (SCATTERED)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12/17/2012

SIGNED: 

H&S OFFICER: DATE: 12/17/12

SIGNED: 



STACK HILL

Weekly Site Inspection Report No. SH 2012- 1209

Week of: 12/9 - 12/15, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Villard St.	G	F	P	Y	N	
Court St.	G	F	P	Y	N	
Commercial St.	G	F	P	Y	N	
Baltimore St.	G	F	P	Y	N	
49 th St.	G	F	P	Y	N	
Tract A (private)	G	F	P	Y	N	
Lot #18 (private)	G	F	P	Y	N	
View Point:						
Parking Pad	G	F	P	Y	N	
Gravel Path	G	F	P	Y	N	
Display Boards	G	F	P	Y	N	
Storm Drains Clean:						
Catch Basins	G	F	P	Y	N	
BMPs:						
Hydroseed	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Sidewalks:						
Damage	G	F	P	Y	N	
Weeds	G	F	P	Y	N	
Signage:						
Perimeter "Advisory"	G	F	P	Y	N	
No Trespass (Tunnel Hillside)	G	F	P	Y	N	
Dust:						
Excavation Areas	G	F	P	Y	N	
Fencing:						
4' Site Perimeter	G	F	P	Y	N	
6' Temp. Panels	G	F	P	Y	N	
Street Lights:						
Condition	G	F	P	Y	N	
Site Markers:						
Lot Numbers	G	F	P	Y	N	
Utilities	G	F	P	Y	N	
Survey Stakes	G	F	P	Y	N	
Retaining Walls:						
Baltimore	G	F	P	Y	N	
Lots 22/23/24	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Light pole down on Villard
Cleared drains on Baltimore

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12/14/12

SIGNED: X Henry J. Shu

H&S OFFICER: DATE: 12/17/12

SIGNED: [Signature]



STREETS

Weekly Site Inspection Report No. STR 2012- 1209

Week of: 12/19 - 12/15, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Surface	<u>G</u>	F	P	Y	<u>N</u>	
Paint	<u>G</u>	F	P	Y	<u>N</u>	
Splitter Islands	<u>G</u>	F	P	Y	<u>N</u>	
Barricades	<u>G</u>	F	P	Y	<u>N</u>	
Signage:						
Trespass	<u>G</u>	F	P	Y	<u>N</u>	
Advisory	<u>G</u>	F	P	Y	<u>N</u>	
Traffic	<u>G</u>	F	P	Y	<u>N</u>	
Marketing	<u>G</u>	F	P	Y	<u>N</u>	
Street Lights:						
Ruston Way	<u>G</u>	F	P	Y	<u>N</u>	
51 st Street	<u>G</u>	F	P	Y	<u>N</u>	
Baltimore	<u>G</u>	F	P	Y	<u>N</u>	
Yacht Club	<u>G</u>	F	P	Y	<u>N</u>	
Junction Boxes	<u>G</u>	F	P	Y	<u>N</u>	
Storm Drains:						
Curb/Gutter	<u>G</u>	F	P	Y	<u>N</u>	<u>Cleared drains</u>
CBs	<u>G</u>	F	P	Y	<u>N</u>	
Filtreras	<u>G</u>	F	P	Y	<u>N</u>	
Sidewalks:						
Paint	<u>G</u>	F	P	Y	<u>N</u>	
Crossings	<u>G</u>	F	P	Y	<u>N</u>	
Bollards	<u>G</u>	F	P	Y	<u>N</u>	
Landscaping:						
Trees	<u>G</u>	F	P	Y	<u>N</u>	
Plants	<u>G</u>	F	P	Y	<u>N</u>	
Sprinkler	<u>G</u>	F	P	Y	<u>N</u>	
Bark/Mulch	<u>G</u>	F	P	Y	<u>N</u>	
Roundabouts:						
Grand	<u>G</u>	F	P	Y	<u>N</u>	
Yacht Club	<u>G</u>	F	P	Y	<u>N</u>	
Features:						
Wall/Rail	<u>G</u>	F	P	Y	<u>N</u>	
Development Sign	<u>G</u>	F	P	Y	<u>N</u>	

G=Good F=Fair P=Poor Y=Yes N=No

STREETS - Weekly Site Inspection Report No.STR 2012- 1209**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

Gates:						
Cooling Pond – West	(G)	F	P	Y	(N)	
Cooling Pond – North	(G)	F	P	Y	(N)	
Lot #12	(G)	F	P	Y	(N)	
Lot #10 – West	(G)	F	P	Y	(N)	
Lot #10 – North	(G)	F	P	Y	(N)	
BNSF – A	(G)	F	P	Y	(N)	
OSW02	(G)	F	P	Y	(N)	
Grand – East	(G)	F	P	Y	(N)	
Grand – West	(G)	F	P	Y	(N)	
Cascade	(G)	F	P	Y	(N)	
Yacht Club – North	(G)	F	P	Y	(N)	
Yacht Club – South	(G)	F	P	Y	(N)	

Other:						
Roundabouts	(G)	F	P	Y	(N)	
Jersey Barriers	(G)	F	P	Y	(N)	
Baltimore Bridge	(G)	F	P	Y	(N)	Cleared drains

Misc. notes:

Reset barricades on Baltimore.

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12-14-2012

SIGNED:

Harry J. Slough

REVIEWED: DATE:

12-17-12

SIGNED:

[Signature]



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2012- 1209

Week of: 12/19 - 12/15, 2012 Inspector: PAT WILBER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area A								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	
Area B								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	
Area C								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	some standing water
Area D								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	some standing water
Area E								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	some standing water
Area F								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	water in collection trench pumped to G
Area G								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	water in collection trench pumped to I sump

G=Good F=Fair P=Poor Y=Yes N=No

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2012- 1209
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area H								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	liner partial cover, N edge left
Drainage	G	F	P	Y	N	Y	N	exposed for future cover -
	G	F	P	Y	N	Y	N	
Area I								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	liner cover on SE area
Edge Anchorage	G	F	P	Y	N	Y	N	sump area left for water
Drainage	G	F	P	Y	N	Y	N	control
	G	F	P	Y	N	Y	N	
Area J								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	G	F	P	Y	N	Y	N	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12/17/12

SIGNED:



REVIEWED: DATE:

12/17/12

SIGNED:





WATERWALK

Weekly Site Inspection Report No. WW 2012- 1209

Week of: 12/09 - 12/15, 2012 Inspector: TIM RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
	(MM) Good	(DD) Fair	(MM) Poor	(DD) Yes	No	
Paths:						
Asphalt	(G)	F	P	Y	(N)	COMPLETED 12/12/12 (TO NORTH END)
Gravel	(G)	F	P	Y	(N)	
Signage:						
Trespass	(G)	F	P	Y	(N)	
Advisory	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Street Lights:						
Junction Boxes	(G)	F	P	Y	(N)	PENDING
Poles	G	F	P	Y	N	
Bulbs	G	F	P	Y	N	
Banners	G	F	P	Y	N	
Storm Drains:						
Area Drains	(G)	F	P	Y	(N)	
Clean Outs	(G)	F	P	Y	(N)	
Octopus:						
Tile	(G)	F	P	Y	(N)	
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #1:						
Tile	(G)	F	P	Y	(N)	
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #2:						
Tile	(G)	F	P	Y	(N)	IN PROGRESS
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #3:						
Tile	(G)	F	P	Y	(N)	IN PROGRESS
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #4:						
Tile	G	F	P	Y	N	PENDING
Grout	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Sprinkler:						
Heads	(G)	F	P	Y	(N)	
Valve Boxes	(G)	F	P	Y	(N)	

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Landscaping:	Good	Fair	Poor	Yes	No	
Trees	G	F	P	Y	N	IN PROGRESS
Plants	G	F	P	Y	N	
Sprinkler	G	F	P	Y	N	
Bark/Mulch	G	F	P	Y	N	
Hardware:	Good	Fair	Poor	Yes	No	
Cleat Benches	G	F	P	Y	N	PENDING
Tables	G	F	P	Y	N	
Trash Cans	G	F	P	Y	N	

Gates:	Good	Fair	Poor	Yes	No	
Ferry – South	(G)	F	P	Y	(N)	PENDING
TIC – I/H	G	F	P	Y	N	
Intersection #1	G	F	P	Y	N	
Intersection #2	G	F	P	Y	N	
Intersection #3	G	F	P	Y	N	
Grand Plaza	G	F	P	Y	N	
Intersection #4	G	F	P	Y	N	
Peninsula - North	(G)	F	P	Y	(N)	

Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	(G)	F	P	Y	(N)	CONDUITS ONLY
Concrete	(G)	F	P	Y	(N)	
Rails	G	F	P	Y	N	

N/A

Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	(G)	F	P	Y	(N)	PENDING
Swings	(G)	F	P	Y	(N)	
Chips	G	F	P	Y	N	

Other:	Good	Fair	Poor	Yes	No	
Coyotes	(G)	F	P	Y	(N)	
Tide Pool	(G)	F	P	Y	(N)	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12/17/12

SIGNED:

REVIEWED: DATE:

12/17/12

SIGNED:



GENERAL SITE

Weekly Site Inspection Report No. **GEN 2012-1216**

Week of: **12 / 16 - 12 / 22, 2012**

Inspector: **TIM RUSHER**

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						(See "Streets" Report for additional gates)
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Security:						
Locks	(G)	F	P	Y	(N)	
Alarms	(G)	F	P	Y	(N)	
Cameras	G	(F)	P	Y	(N)	
BMPs:						
Silt Fence	(G)	F	P	Y	(N)	REPAIRED SILT FENCE NEAR YAKUT CUP (PENINSULA) (12/21/12)
Waddles	(G)	F	P	Y	(N)	
Nursery:						
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	F	P	Y	(N)	
Weeds	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	CONTINUOUS MAINTENANCE
Zone Separation	(G)	F	P	Y	(N)	
CRZs:						
Area D	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Haul Roads:						
Main Street	(G)	F	P	Y	(N)	
Grand Ave.	(G)	F	P	Y	(N)	
OCF road	(G)	F	P	Y	(N)	
Metr.Pks-Peninsula	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

GENERAL SITE - Weekly Site Inspection Report No. GEN 2012-1216**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)****Misc. notes:**

FENCING: HIGH WINDS THROUGHOUT WEEK CAUSED DAMAGE TO ZONE FENCING. REQUIRED EXTRA TIME TO REPAIR.

BMPs: REPAIRED SAGGING SILT FENCE NEAR THE YACHT CLUB END OF THE PENINSULA. 12/21/12

Air Monitoring:

Day of Week	Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun 16	0	0	0	NO RA ACTIVITY
Mon 17	3	0	0	(BIG TOY PLACEWOOD CHIPS) / 2B (FOUNDATION) / 2A (DRIVEWAY GRADING)
Tue 18	3	0	0	2A/2B (STORM DRAIN WORK)
Wed 19	3	0	0	11 / 2A (GRADING MAIN ST.)
Thu 20	3	0	0	2A/2B (STORM DRAIN WORK)
Fri 21	3	0	0	START REAL TIME E-SAMPLER AT S. END / PUMP T.I.C.F.
Sat 22	0	0	0	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 16	35/44°	SOUTH WIND 5MPH/GUST 15MPH, PRECIP. 0.98" (ALL DAY)
Mon 17	32/46°	SSW WIND 12MPH/GUST 25MPH, PRECIP. 0.09" (EARLY MORN)
Tue 18	32/31°	SSW WIND 10MPH/GUST 14MPH, PRECIP. 0.05" (MORN & NOON)
Wed 19	33/40°	SOUTH WIND 5MPH/GUST 19MPH, PRECIP. 0.108" (SCATTERED)
Thu 20	33/40°	SSW WIND 6MPH/GUST 15MPH, PRECIP. 0.35" (MORN-NOON)
Fri 21	31/44°	NE WIND 1MPH/GUST 7MPH, PRECIP. 0.02" (MORN)
Sat 22	38/47°	SSW WIND 4MPH/GUST 15MPH, PRECIP. 0.11" (SCATTERED)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12/24/2012

SIGNED: 

H&S OFFICER: DATE: 12/24/12

SIGNED: 



STACK HILL

Weekly Site Inspection Report No. SH 2012- 1216

Week of: 12/16 - 12/22, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Villard St.	<u>G</u>	F	P	Y	<u>N</u>	
Court St.	<u>G</u>	F	P	Y	<u>N</u>	
Commercial St.	<u>G</u>	F	P	Y	<u>N</u>	
Baltimore St.	<u>G</u>	F	P	Y	<u>N</u>	
49 th St.	<u>G</u>	F	P	Y	<u>N</u>	
Tract A (private)	<u>G</u>	F	P	Y	<u>N</u>	
Lot #18 (private)	<u>G</u>	F	P	Y	<u>N</u>	
View Point:						
Parking Pad	<u>G</u>	F	P	Y	<u>N</u>	
Gravel Path	<u>G</u>	F	P	Y	<u>N</u>	
Display Boards	<u>G</u>	F	P	Y	<u>N</u>	
Storm Drains Clean:						
Catch Basins	<u>G</u>	F	P	Y	<u>N</u>	<u>Cleared catch basins</u>
BMPs:						
Hydroseed	<u>G</u>	F	P	Y	<u>N</u>	
(Other)	<u>G</u>	F	P	Y	<u>N</u>	
Sidewalks:						
Damage	<u>G</u>	F	P	Y	<u>N</u>	
Weeds	<u>G</u>	F	P	Y	<u>N</u>	
Signage:						
Perimeter "Advisory"	<u>G</u>	F	P	Y	<u>N</u>	
No Trespass (Tunnel Hillside)	<u>G</u>	F	P	Y	<u>N</u>	
Dust:						
Excavation Areas	<u>G</u>	F	P	Y	<u>N</u>	
Fencing:						
4' Site Perimeter	<u>G</u>	F	P	Y	<u>N</u>	
6' Temp. Panels	<u>G</u>	F	P	Y	<u>N</u>	
Street Lights:						
Condition	<u>G</u>	F	P	Y	<u>N</u>	
Site Markers:						
Lot Numbers	<u>G</u>	F	P	Y	<u>N</u>	
Utilities	<u>G</u>	F	P	Y	<u>N</u>	
Survey Stakes	<u>G</u>	F	P	Y	<u>N</u>	
Retaining Walls:						
Baltimore	<u>G</u>	F	P	Y	<u>N</u>	
Lots 22/23/24	<u>G</u>	F	P	Y	<u>N</u>	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

light post down on Villard St.

Reset Barricades on Baltimore

Cleared catch basins on Villard & Baltimore

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12-21-12

SIGNED: Harry J. Shugart

H&S OFFICER: DATE: 12/24/12

SIGNED: [Signature]



STREETS

Weekly Site Inspection Report No. **STR 2012- 1216**

Week of: 12/16 - 12/22, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Streets:						
Surface	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Splitter Islands	G	F	P	Y	N	
Barricades	G	F	P	Y	N	
Signage:						
Trespass	G	F	P	Y	N	
Advisory	G	F	P	Y	N	
Traffic	G	F	P	Y	N	
Marketing	G	F	P	Y	N	
Street Lights:						
Ruston Way	G	F	P	Y	N	
51 st Street	G	F	P	Y	N	
Baltimore	G	F	P	Y	N	
Yacht Club	G	F	P	Y	N	
Junction Boxes	G	F	P	Y	N	
Storm Drains:						
Curb/Gutter	G	F	P	Y	N	
CBs	G	F	P	Y	N	
Filtreras	G	F	P	Y	N	
Sidewalks:						
Paint	G	F	P	Y	N	
Crossings	G	F	P	Y	N	
Bollards	G	F	P	Y	N	
Landscaping:						
Trees	G	F	P	Y	N	
Plants	G	F	P	Y	N	
Sprinkler	G	F	P	Y	N	
Bark/Mulch	G	F	P	Y	N	
Roundabouts:						
Grand	G	F	P	Y	N	
Yacht Club	G	F	P	Y	N	
Features:						
Wall/Rail	G	F	P	Y	N	
Development Sign	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:	Good	Fair	Poor	Yes	No	
Cooling Pond – West	G	F	P	Y	N	Sprayed lead-40 in all locks
Cooling Pond – North	G	F	P	Y	N	
Lot #12	G	F	P	Y	N	
Lot #10 – West	G	F	P	Y	N	
Lot #10 – North	G	F	P	Y	N	
BNSF – A	G	F	P	Y	N	
OSW02	G	F	P	Y	N	
Grand – East	G	F	P	Y	N	
Grand – West	G	F	P	Y	N	
Cascade	G	F	P	Y	N	
Yacht Club – North	G	F	P	Y	N	
Yacht Club – South	G	F	P	Y	N	

Other:	Good	Fair	Poor	Yes	No	
Roundabouts	G	F	P	Yok	N	
Jersey Barriers	G	F	P	Y	N	
Baltimore Bridge	G	F	P	Y	N	

Misc. notes:

Reset barricades on Grand Ave Roundabout.

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12-21-2012

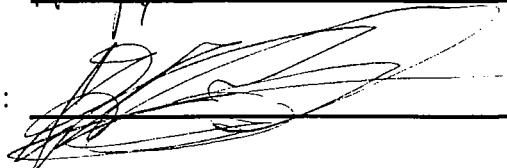
SIGNED:

Harry J. Shaw

REVIEWED: DATE:

12/24/12

SIGNED:





TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2012- 1216

Week of: 12/16 - 12/22, 2012

Inspector: PAT WILBER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area A								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	
Area B								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	
	(G)	F	P	(Y)	N	Y	(N)	
Area C								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	Slight standing water
	(G)	F	P	(Y)	N	Y	(N)	
Area D								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	Some standing water
	(G)	F	P	(Y)	N	Y	(N)	
Area E								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	Some standing water
	(G)	F	P	(Y)	N	Y	(N)	
Area F								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	water pumped in seen to from collection trench
	(G)	F	P	(Y)	N	Y	(N)	
Area G								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	water in collection trench pumped to F trench
	(G)	F	P	(Y)	N	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2012- 1216
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area H								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	liner partial cover, edge exposed for future cover
Area I								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	liner cover left open in SE area sun area for water control
Area J								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	

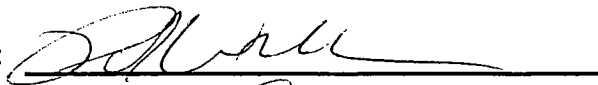
Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12/26/12

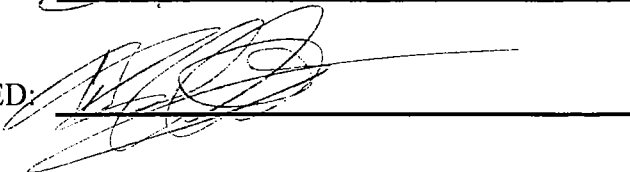
SIGNED:



REVIEWED: DATE:

12/27/12

SIGNED:





WATERWALK

Weekly Site Inspection Report No. WW 2012- 1216

Week of: 12/16 - 12/22, 2012 Inspector: TIM RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Paths:						
Asphalt	(G)	F	P	Y	(N)	
Gravel	(G)	F	P	Y	(N)	
Signage:						
Trespass	(G)	F	P	Y	(N)	
Advisory	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Street Lights:						
Junction Boxes	(G)	F	P	Y	(N)	
Poles	(G)	F	P	Y	(N)	
Bulbs	(G)	F	P	Y	(N)	
Banners	G	F	P	Y	N	ONLY PHASE 1 INSTALLED N/A
Storm Drains:						
Area Drains	(G)	F	P	Y	(N)	
Clean Outs	(G)	F	P	Y	(N)	
Octopus:						
Tile	(G)	F	P	Y	(N)	
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #1:						
Tile	(G)	F	P	Y	(N)	
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #2:						
Tile	(G)	F	P	Y	(N)	IN PROGRESS
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #3:						
Tile	(G)	F	P	Y	(N)	IN PROGRESS
Grout	(G)	F	P	Y	(N)	
Paint	(G)	F	P	Y	(N)	
Intersection #4:						
Tile	G	F	P	Y	N	PENDING
Grout	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Sprinkler:						
Heads	(G)	F	P	Y	(N)	
Valve Boxes	(G)	F	P	Y	(N)	

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Landscaping:	Good	Fair	Poor	Yes	No	
Trees	(G)	F	P	Y	(N)	
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	F	P	Y	(N)	
Bark/Mulch	(G)	F	P	Y	(N)	
Hardware:	Good	Fair	Poor	Yes	No	
Cleat Benches	G	F	P	Y	N	PENDING
Tables	G	F	P	Y	N	
Trash Cans	G	F	P	Y	N	

Gates:	Good	Fair	Poor	Yes	No	
Ferry – South	(G)	F	P	Y	(N)	
TIC – I/H	G	F	P	Y	N	PENDING
Intersection #1	G	F	P	Y	N	
Intersection #2	G	F	P	Y	N	
Intersection #3	G	F	P	Y	N	
Grand Plaza	G	F	P	Y	N	
Intersection #4	G	F	P	Y	N	
Peninsula - North	G	F	P	Y	N	

Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	(G)	F	P	Y	(N)	
Concrete	(G)	F	P	Y	(N)	
Rails	(G)	F	P	Y	(N)	FENCE/INSTALLED ON SW SIDE (TOP)

Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	(G)	F	P	Y	(N)	
Swings	(G)	F	P	Y	(N)	
Chips	(G)	F	P	Y	(N)	

Other:	Good	Fair	Poor	Yes	No	
Coyotes	(G)	F	P	Y	(N)	
Tide Pool	(G)	F	P	Y	(N)	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12/24/12

SIGNED:

REVIEWED: DATE:

12/24/12

SIGNED:



GENERAL SITE

Weekly Site Inspection Report No. **GEN 2012-1223**

Week of: **12 / 23 - 12 / 29, 2012**

Inspector: TIM RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						(See "Streets" Report for additional gates)
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Security:						
Locks	(G)	F	P	Y	(N)	
Alarms	(G)	F	P	Y	(N)	
Cameras	G	(F)	P	Y	(N)	
BMPs:						
Silt Fence	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Nursery:						
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	F	P	Y	(N)	
Weeds	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	WET!
Excavation area	(G)	F	P	Y	(N)	WET!
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	ONGOING MAINTENANCE
CRZs:						
Area D	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Haul Roads:						
Main Street	(G)	F	P	Y	(N)	
Grand Ave.	(G)	F	P	Y	(N)	
OCF road	(G)	F	P	Y	(N)	
Metr.Pks-Peninsula	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

GENERAL SITE - Weekly Site Inspection Report No. GEN 2012-1223**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)****Misc. notes:****Air Monitoring:**

Day of Week		Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun	23	①	①	①	NO RA ACTIVITY
Mon	24	①	①	①	NO RA ACTIVITY
Tue	25	①	①	①	NO RA ACTIVITY
Wed	26	3	①	①	T.I.C-F (STORM DRAIN)
Thu	27	3	①	1	T.I.C-F (STORM DRAIN) / WATERWALK (TOP SOIL)
Fri	28	3	①	①	T.I.C-F (LINER PREP)
Sat	29	①	①	①	NO RA ACTIVITY

WEATHER:

Day of Week		(LOW/HIGH)	Summary of Weather Conditions
Sun	23	37°/43°	SSW WIND 3MPH/GUST 9MPH, PRECIP. 0.26" (SCATTERED)
Mon	24	37°/41°	SSW WIND 3MPH/GUST 9MPH, PRECIP. 0.01" (DVE)
Tue	25	30°/41°	NE WIND 1MPH/GUST 5MPH, PRECIP. 0.59" (SCATTERED) ^{SNOW}
Wed	26	37°/44°	SSW WIND 5MPH/GUST 12MPH, PRECIP. 0.15" (SCATTERED)
Thu	27	37°/45°	SSW WIND 5MPH/GUST 11MPH, PRECIP. 0.01" (EARLY MORNIN)
Fri	28	37°/45°	SW WIND 1MPH/GUST 10MPH, NO PRECIPITATION
Sat	29	37°/45°	SSE WIND .2MPH/GUST 2MPH, PRECIP. 0.04" (AFTERNOON-6P)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12/31/2012

SIGNED: 

H&S OFFICER: DATE: 12/31/12

SIGNED: 



STACK HILL

Weekly Site Inspection Report No. **SH 2012- 1223**

Week of: 12/23 - 12/29, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Villard St.	(G)	F	P	Y	(N)	
Court St.	(G)	F	P	Y	(N)	
Commercial St.	(G)	F	P	Y	(N)	
Baltimore St.	(G)	F	P	Y	(N)	
49 th St.	(G)	F	P	Y	(N)	
Tract A (private)	(G)	F	P	Y	(N)	
Lot #18 (private)	(G)	F	P	Y	(N)	
View Point:						
Parking Pad	(G)	F	P	Y	(N)	
Gravel Path	(G)	F	P	Y	(N)	
Display Boards	(G)	F	P	Y	(N)	
Storm Drains Clean:						
Catch Basins	(G)	F	P	Y	(N)	
BMPs:						
Hydroseed	(G)	F	P	Y	(N)	
(Other)	(G)	F	P	Y	(N)	
Sidewalks:						
Damage	(G)	F	P	Y	(N)	
Weeds	(G)	F	P	Y	(N)	
Signage:						
Perimeter "Advisory"	(G)	F	P	Y	(N)	
No Trespass (Tunnel Hillside)	(G)	F	P	Y	(N)	
Dust:						
Excavation Areas	(G)	F	P	Y	(N)	
Fencing:						
4' Site Perimeter	(G)	F	P	Y	(N)	
6' Temp. Panels	(G)	F	P	Y	(N)	
Street Lights:						
Condition	(G)	F	P	Y	(N)	
Site Markers:						
Lot Numbers	(G)	F	P	Y	(N)	
Utilities	(G)	F	P	Y	(N)	
Survey Stakes	(G)	F	P	Y	(N)	
Retaining Walls:						
Baltimore	(G)	F	P	Y	(N)	
Lots 22/23/24	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

STACK HILL - Weekly Site Inspection Report No. SH 2012-1223
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

light past down on Villard; ~~took~~ took a pic

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12-28-2012

SIGNED: 

H&S OFFICER: DATE: 1/3/13

SIGNED: 



STREETS

Weekly Site Inspection Report No. **STR 2012- 1223**

Week of: 12 / 23 - 12 / 29 , 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Streets:						
Surface	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Splitter Islands	G	F	P	Y	N	
Barricades	G	F	P	Y	N	
Signage:						
Trespass	G	F	P	Y	N	
Advisory	G	F	P	Y	N	
Traffic	G	F	P	Y	N	
Marketing	G	F	P	Y	N	
Street Lights:						
Ruston Way	G	F	P	Y	N	
51 st Street	G	F	P	Y	N	
Baltimore	G	F	P	Y	N	
Yacht Club	G	F	P	Y	N	
Junction Boxes	G	F	P	Y	N	
Storm Drains:						
Curb/Gutter	G	F	P	Y	N	
CBs	G	F	P	Y	N	
Filterrras	G	F	P	Y	N	
Sidewalks:						
Paint	G	F	P	Y	N	
Crossings	G	F	P	Y	N	
Bollards	G	F	P	Y	N	
Landscaping:						
Trees	G	F	P	Y	N	
Plants	G	F	P	Y	N	
Sprinkler	G	F	P	Y	N	
Bark/Mulch	G	F	P	Y	N	
Roundabouts:						
Grand	G	F	P	Y	N	
Yacht Club	G	F	P	Y	N	
Features:						
Wall/Rail	G	F	P	Y	N	
Development Sign	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:	Good	Fair	Poor	Yes	No	
Cooling Pond – West	G	F	P	Y	N	
Cooling Pond – North	G	F	P	Y	N	
Lot #12	G	F	P	Y	N	
Lot #10 – West	G	F	P	Y	N	
Lot #10 – North	G	F	P	Y	N	
BNSF – A	G	F	P	Y	N	
OSW02	G	F	P	Y	N	
Grand – East	G	F	P	Y	N	
Grand – West	G	F	P	Y	N	
Cascade	G	F	P	Y	N	
Yacht Club – North	G	F	P	Y	N	
Yacht Club – South	G	F	P	Y	N	

Other:	Good	Fair	Poor	Yes	No	
Roundabouts	G	F	P	Y	N	
Jersey Barriers	G	F	P	Y	N	
Baltimore Bridge	G	F	P	Y	N	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12-28-2012

SIGNED: Harry J. Slawson

REVIEWED: DATE: 1/3/13

SIGNED: [Signature]



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2012-1223

Week of: 12/23 - 12/29, 2012

Inspector: TIM RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Area A Geomembrane Sand Bag Cover Edge Anchorage Drainage								N/A
								BARE WASTE SOILS
								N/A
	✓						✓	
Area B Geomembrane Sand Bag Cover Edge Anchorage Drainage								N/A
								GRASS COVER
								N/A
	✓						✓	
Area C Geomembrane Sand Bag Cover Edge Anchorage Drainage								N/A
								BARE WASTE SOILS w/VEGETATION
								N/A
	✓						✓	
Area D Geomembrane Sand Bag Cover Edge Anchorage Drainage								N/A
								BARE WASTE SOILS w/SPARSE VEGETATION
								N/A
	✓						✓	
Area E Geomembrane Sand Bag Cover Edge Anchorage Drainage								N/A
								BARE WASTE SOILS w/VEGETATION
								N/A
	✓						✓	
Area F Geomembrane Sand Bag Cover Edge Anchorage Drainage								STORM DRAIN + GRADING PREP IN PROG.
								PENDING
								N/A
	✓						✓	N/A PUMPING TO (G)
Area G Geomembrane Sand Bag Cover Edge Anchorage Drainage								N/A
								BARE WASTE SOILS w/SPARSE VEGETATION
								N/A
	✓						✓	PUMPING TO (I) PIT

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2012-1223

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Area H Geomembrane Sand Bag Cover Edge Anchorage Drainage	✓			1/2		✓		PARTIAL INSTALLED (50%)
	✓					✓		
	✓					✓		
	✓					✓		
Area I Geomembrane Sand Bag Cover Edge Anchorage Drainage	✓					✓		75% INSTALLED
	✓					✓		
	✓					✓		
	✓					✓		
Area J Geomembrane Sand Bag Cover Edge Anchorage Drainage								PENDING 7

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

1/3/13

SIGNED:



REVIEWED: DATE:

1/3/13

SIGNED:





WATERWALK

Weekly Site Inspection Report No. WW 2012-1223

Week of: ^(MM) 12 / ^(DD) 23 - ^(MM) 12 / ^(DD) 29 , 2012 Inspector: Tim RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Paths:						
Asphalt	✓				✓	
Gravel	✓				✓	
Signage:						
Trespass	✓				✓	PHASE 1 POSTED TO NW OF FERRY
Advisory	✓				✓	
(Other)						
Street Lights:						
Junction Boxes	✓				✓	
Poles	✓				✓	INSTALLED PAST FERRY
Bulbs	✓					FIXTURES INSTALLED IN PHASE 1 ONLY
Banners						N/A
Storm Drains:						
Area Drains	✓				✓	
Clean Outs	✓				✓	
Octopus:						
Tile	✓				✓	
Grout	✓				✓	
Paint	✓				✓	
Intersection #1:						
Tile	✓				✓	MOVED TEST FR. #3 TO #1
Grout	✓				✓	
Paint	✓				✓	
Intersection #2:						
Tile	✓				✓	WORK IN PROGRESS (TENT)
Grout	✓				✓	
Paint	✓				✓	
Intersection #3:						
Tile	✓				✓	
Grout	✓				✓	
Paint	✓				✓	
Intersection #4:						
Tile						PENDING
Grout						
Paint						
Sprinkler:						
Heads	✓				✓	
Valve Boxes	✓				✓	

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Landscaping:	Good	Fair	Poor	Yes	No	WORKING FROM S TO N.
Trees	✓				✓	
Plants	✓				✓	
Sprinkler	✓				✓	
Bark/Mulch	✓				✓	
Hardware:	Good	Fair	Poor	Yes	No	PENDING
Cleat Benches						
Tables						
Trash Cans						
Gates:	Good	Fair	Poor	Yes	No	
Ferry – South	✓			✓		NEEDS BRACING FOR HIGH WINDS.
TIC – I/H						PENDING
Intersection #1						
Intersection #2						
Intersection #3						
Grand Plaza						
Intersection #4						
Peninsula - North	✓				✓	
Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	✓				✓	COURTAINS ONLY
Concrete	✓				✓	
Rails	✓				✓	FENCE INSTALLED ON TOP
Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	✓				✓	
Swings	✓				✓	
Chips	✓				✓	
Other:	Good	Fair	Poor	Yes	No	
Coyotes	✓				✓	
Tide Pool	✓				✓	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

1/3/13

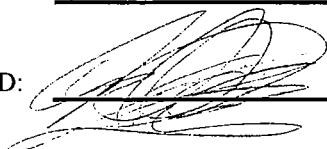
SIGNED:



REVIEWED: DATE:

1/3/13

SIGNED:



Monthly Report 199, December 2012
Operable Unit 02
Asarco Tacoma Smelter Site

OUTFALL MONITORING DATA

[illegible]

Table 1. Summary of **December 2012** Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.000	0.00%	0.000	0.00%	0.000	0.00%
OSW2	0.039	7.70%	0.012	2.41%	0.004	0.73%
North Outfall	0.030	5.95%	0.021	4.10%	0.019	3.70%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

** **NOTE:** Sampling has been suspended at the South Outfall due to lack of sample media.
Sampling will resume when media is available.



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JAN 11 2013

BY: _____

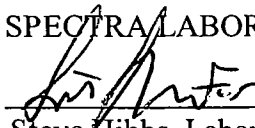
01/07/2013

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter
Date Received: 12/31/2012
Spectra Project: 2012120629

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM1212410	1	Arsenic	0.030	mg/L	EPA 200.8	Water	12/10/2012
TSM1212410	1	Copper	0.021	mg/L	EPA 200.8	Water	12/10/2012
TSM1212410	1	Zinc	0.012	mg/L	EPA 200.8	Water	12/10/2012
TSM1212210	2	Arsenic	0.040	mg/L	EPA 200.8	Water	12/10/2012
TSM1212210	2	Copper	0.015	mg/L	EPA 200.8	Water	12/10/2012
TSM1212210	2	Zinc	0.0035	mg/L	EPA 200.8	Water	12/10/2012
TSM1212417	3	Arsenic	0.030	mg/L	EPA 200.8	Water	12/17/2012
TSM1212417	3	Copper	0.017	mg/L	EPA 200.8	Water	12/17/2012
TSM1212417	3	Zinc	0.029	mg/L	EPA 200.8	Water	12/17/2012
TSM1212217	4	Arsenic	0.034	mg/L	EPA 200.8	Water	12/17/2012
TSM1212217	4	Copper	0.0091	mg/L	EPA 200.8	Water	12/17/2012
TSM1212217	4	Zinc	0.0034	mg/L	EPA 200.8	Water	12/17/2012
TSM1212424	5	Arsenic	0.032	mg/L	EPA 200.8	Water	12/24/2012
TSM1212424	5	Copper	0.029	mg/L	EPA 200.8	Water	12/24/2012
TSM1212424	5	Zinc	0.023	mg/L	EPA 200.8	Water	12/24/2012
TSM1212224	6	Arsenic	0.041	mg/L	EPA 200.8	Water	12/24/2012
TSM1212224	6	Copper	0.013	mg/L	EPA 200.8	Water	12/24/2012
TSM1212224	6	Zinc	0.0038	mg/L	EPA 200.8	Water	12/24/2012

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

a8/scj



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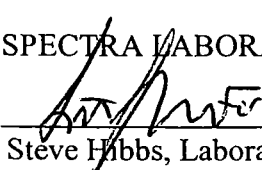
01/07/2013

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter
Date Received: 12/31/2012
Spectra Project: 2012120629

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM121212431	7	Arsenic	0.027	mg/L	EPA 200.8	Water	12/31/2012
TSM121212431	7	Copper	0.015	mg/L	EPA 200.8	Water	12/31/2012
TSM121212431	7	Zinc	0.010	mg/L	EPA 200.8	Water	12/31/2012
TSM121212231	8	Arsenic	0.039	mg/L	EPA 200.8	Water	12/31/2012
TSM121212231	8	Copper	0.011	mg/L	EPA 200.8	Water	12/31/2012
TSM121212231	8	Zinc	0.0039	mg/L	EPA 200.8	Water	12/31/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

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January 7, 2013

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2012120629
Applies to Spectra #'s 1 thru 8

QUALITY CONTROL RESULTS

ICP-MS Metals - EPA Method 200.8 - Water

Method Blank			
Date Digested:	1/7/2013	Date Analyzed:	1/7/2013
Element	CAS #	Blank Result	
Arsenic	7440-38-2	< 0.5	
Copper	7440-50-8	< 0.5	
Zinc	7440-66-6	< 0.5	

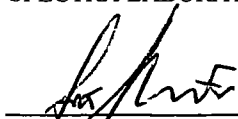
Blank Spike (LCS)			
Date Digested:	1/7/2013	Date Analyzed:	1/7/2013
Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	50.0	50.44	100.9
Copper	50.0	52.81	105.6
Zinc	50.0	50.67	101.3

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)							
Date Digested:	1/7/2013			Date Analyzed:	1/7/2013		
Sample Spiked:	2013010082-1						
Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	RPD
Arsenic	0.00	50.0	49.70	99.4	51.89	103.8	4.3
Copper	4.36	50.0	54.42	100.1	57.07	105.4	5.2
Zinc	64.11	50.0	112.20	96.2	117.90	107.6	11.2

Recovery Limits 70-130%
RPD Limit 20

SPECTRA LABORATORIES



Steven G. Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2012100629

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
TACOMA SMELTER		POINT RUSTON, LLC		AS, Zn, Cu			
SAMPLERS: (Signature)							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
12/10/12	NORTH	9:00	X		TSM1212410	1	X
12/10/12	OSW2	9:05	X		TSM1212210	1	X
12/17/12	NORTH	9:25	X		TSM1212417	1	X
12/17/12	OSW2	9:30	X		TSM1212217	1	X
12/24/12	NORTH	15:08	X		TSM1212424	1	X
12/24/12	OSW2	15:05	X		TSM1212224	1	X
12/31/12	NORTH	10:37	X		TSM1212431	1	X
12/31/12	OSW2	10:41	X		TSM1212231	1	X
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-30deg); opacity: 0.5;"></div>							
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
		12/31/12 1345				SPECTRA	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Shipped via: FedEx, UPS or Other	
						DROD OF	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Remarks	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples:							
[] Accepted [] Declined							
Signature							

Monthly Report 199, December 2012
Operable Unit 02
Asarco Tacoma Smelter Site

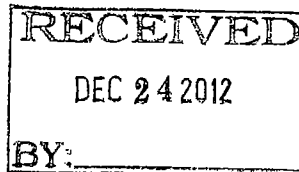
PERIMETER
AIR
MONITORING
DATA
(HIGH VOLUME)

Reference	Date	Description
Hi-Vol	11/26 – 12/28	Spectra Laboratories Analysis Reports for As-Pb
Hi-Vol	11/26 – 12/28	IML Air Science Particulate Network Summary Reports for TSP-As-Pb



SPECTRA Laboratories

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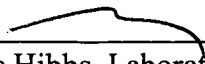
12/18/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/03/2012
Spectra Project: 2012120037

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
514088	1	Arsenic	0.0067	µg/m3	SW846 6020A	Filter	11/26/2012
514088	1	Lead	0.0066	µg/m3	SW846 6020A	Filter	11/26/2012
514089	2	Arsenic	0.0042	µg/m3	SW846 6020A	Filter	11/26/2012
514089	2	Lead	0.0076	µg/m3	SW846 6020A	Filter	11/26/2012
514091	3	Arsenic	0.0070	µg/m3	SW846 6020A	Filter	11/27/2012
514091	3	Lead	0.018	µg/m3	SW846 6020A	Filter	11/27/2012
514092	4	Arsenic	0.0076	µg/m3	SW846 6020A	Filter	11/27/2012
514092	4	Lead	0.025	µg/m3	SW846 6020A	Filter	11/27/2012
8599902	5	Arsenic	0.010	µg/m3	SW846 6020A	Filter	11/28/2012
8599902	5	Lead	0.017	µg/m3	SW846 6020A	Filter	11/28/2012
8599901	6	Arsenic	0.0098	µg/m3	SW846 6020A	Filter	11/28/2012
8599901	6	Lead	0.017	µg/m3	SW846 6020A	Filter	11/28/2012
8600200	7	Arsenic	0.032	µg/m3	SW846 6020A	Filter	11/29/2012
8600200	7	Lead	0.0060	µg/m3	SW846 6020A	Filter	11/29/2012
8600199	8	Arsenic	0.0041	µg/m3	SW846 6020A	Filter	11/29/2012
8600199	8	Lead	0.0075	µg/m3	SW846 6020A	Filter	11/29/2012

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

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12/18/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/03/2012
Spectra Project: 2012120037

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8600198	9	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	11/30/2012
8600198	9	Lead	0.0037	µg/m3	SW846 6020A	Filter	11/30/2012
8600197	10	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	11/30/2012
8600197	10	Lead	0.0035	µg/m3	SW846 6020A	Filter	11/30/2012
8600192	11	Arsenic	< 0.00015	µg/m3	SW846 6020A	Filter	12/03/2012
8600192	11	Lead	< 0.00015	µg/m3	SW846 6020A	Filter	12/03/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

7016120037

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS																		
SAMPLERS: (Signature)																								
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER																			
11/26/12	OCE-VI		X		514088	1	X																	
11/26/12	OCE-NW		X		514089	1	X																	
11/27/12	OCE-VI		X		514091	1	X																	
11/27/12	OCE-NW		X		514092	1	X																	
11/28/12	OCE-VI		X		8599902	1	X																	
11/28/12	OCE-NW		X		8599901	1	X																	
11/28/12	OCE-VI		X		8600200	1	X																	
11/28/12	OCE-NW		X		8600199	1	X																	
11/30/12	OCE-VI		X		8600198	1	X																	
11/30/12	OCE-NW		X		8600197	1	X																	
12/3/12	Control				8600192	1	X																	
HI-VOLUME SAMPLER LOG																								
Relinquished (Signature)					Date/Time					Received by: (Signature)					Lab					Shipped via: FedEx, UPS or Other				
Relinquished (Signature)					Date/Time					Received by: (Signature)					Remarks					Air Bill #				
Relinquished (Signature)					Date/Time					Received for Laboratory by: (Signature)					Date/Time					Enclosed:				
																				<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter				
Split Samples:																								
[] Accepted [] Declined																								
Signature																								



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12/21/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/10/2012
Spectra Project: 2012120221

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8600196	1	Arsenic	0.0015	µg/m3	SW846 6020A	Filter	12/03/2012
8600196	1	Lead	0.0028	µg/m3	SW846 6020A	Filter	12/03/2012
8600195	2	Arsenic	0.0017	µg/m3	SW846 6020A	Filter	12/03/2012
8600195	2	Lead	0.0037	µg/m3	SW846 6020A	Filter	12/03/2012
8600194	3	Arsenic	0.00067	µg/m3	SW846 6020A	Filter	12/04/2012
8600194	3	Lead	0.0043	µg/m3	SW846 6020A	Filter	12/04/2012
8600193	4	Arsenic	0.00067	µg/m3	SW846 6020A	Filter	12/04/2012
8600193	4	Lead	0.0024	µg/m3	SW846 6020A	Filter	12/04/2012
8600191	5	Arsenic	0.0022	µg/m3	SW846 6020A	Filter	12/05/2012
8600191	5	Lead	0.0037	µg/m3	SW846 6020A	Filter	12/05/2012
8600190	6	Arsenic	0.0029	µg/m3	SW846 6020A	Filter	12/05/2012
8600190	6	Lead	0.0046	µg/m3	SW846 6020A	Filter	12/05/2012
8600189	7	Arsenic	0.0019	µg/m3	SW846 6020A	Filter	12/06/2012
8600189	7	Lead	0.0041	µg/m3	SW846 6020A	Filter	12/06/2012
8600188	8	Arsenic	0.0021	µg/m3	SW846 6020A	Filter	12/06/2012
8600188	8	Lead	0.0020	µg/m3	SW846 6020A	Filter	12/06/2012

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Steve Hibbs, Laboratory Manager

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12/21/2012

Point Ruston
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Suite 100
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Project: Air Monitoring (hi-vol)
Date Received: 12/10/2012
Spectra Project: 2012120221

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8600187	9	Arsenic	0.0013	µg/m3	SW846 6020A	Filter	12/07/2012
8600187	9	Lead	0.0067	µg/m3	SW846 6020A	Filter	12/07/2012
8600186	10	Arsenic	0.00089	µg/m3	SW846 6020A	Filter	12/07/2012
8600186	10	Lead	0.0017	µg/m3	SW846 6020A	Filter	12/07/2012
8600182	11	Arsenic	< 0.00015	µg/m3	SW846 6020A	Filter	12/10/2012
8600182	11	Lead	< 0.00015	µg/m3	SW846 6020A	Filter	12/10/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

2012120221

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083



PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS
AIR MONITORING		Pt Ruston LLC			
SAMPLERS: (Signature)					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER
12/3/12	OCF-VI		x		8600196
12/3/12	OCF-NW		x		8600195
12/4/12	OCF-VI		x		8600194
12/4/12	OCF-NW		x		8600193
12/5/12	OCF-VI		x		8600191
12/5/12	OCF-NW		x		8600190
12/6/12	OCF-VI		x		8600189
12/6/12	OCF-NW		x		8600188
12/7/12	OCF-VI		x		8600187
12/7/12	OCF-NW		x		8600186
12/10/12	Control				8600182
HI VOLUME SAMPLER LOG					
Relinquished (Signature)		Date/Time		Received by: (Signature)	
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Relinquished (Signature)		Date/Time		Received by: (Signature)	
[Signature]				[Signature]	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)	
[Signature]				[Signature]	
				Date/Time	
				Enclosed:	
				<input type="checkbox"/> Parameter List with DTLs	
				<input type="checkbox"/> Cover Letter	
Split Samples:					
[] Accepted [] Declined					
Signature					



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12/21/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/17/2012
Spectra Project: 2012120404

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8600185	1	Arsenic	0.0017	µg/m3	SW846 6020A	Filter	12/10/2012
8600185	1	Lead	0.0034	µg/m3	SW846 6020A	Filter	12/10/2012
8600184	2	Arsenic	0.0017	µg/m3	SW846 6020A	Filter	12/10/2012
8600184	2	Lead	0.0043	µg/m3	SW846 6020A	Filter	12/10/2012
8600183	3	Arsenic	0.00052	µg/m3	SW846 6020A	Filter	12/11/2012
8600183	3	Lead	0.00030	µg/m3	SW846 6020A	Filter	12/11/2012
8600181	4	Arsenic	0.00082	µg/m3	SW846 6020A	Filter	12/11/2012
8600181	4	Lead	0.0047	µg/m3	SW846 6020A	Filter	12/11/2012
8600180	5	Arsenic	0.0036	µg/m3	SW846 6020A	Filter	12/12/2012
8600180	5	Lead	0.0058	µg/m3	SW846 6020A	Filter	12/12/2012
8600179	6	Arsenic	0.0027	µg/m3	SW846 6020A	Filter	12/12/2012
8600179	6	Lead	0.0068	µg/m3	SW846 6020A	Filter	12/12/2012
8600178	7	Arsenic	0.0020	µg/m3	SW846 6020A	Filter	12/13/2012
8600178	7	Lead	0.0051	µg/m3	SW846 6020A	Filter	12/13/2012
8600177	8	Arsenic	0.0022	µg/m3	SW846 6020A	Filter	12/13/2012
8600177	8	Lead	0.0080	µg/m3	SW846 6020A	Filter	12/13/2012

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Steve Hibbs, Laboratory Manager

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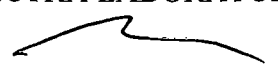
12/21/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/17/2012
Spectra Project: 2012120404

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8600176	9	Arsenic	0.0060	µg/m3	SW846 6020A	Filter	12/14/2012
8600176	9	Lead	0.0051	µg/m3	SW846 6020A	Filter	12/14/2012
8600175	10	Arsenic	0.0062	µg/m3	SW846 6020A	Filter	12/14/2012
8600175	10	Lead	0.011	µg/m3	SW846 6020A	Filter	12/14/2012
8600174	11	Arsenic	0.00070	µg/m3	SW846 6020A	Filter	12/15/2012
8600174	11	Lead	0.0037	µg/m3	SW846 6020A	Filter	12/15/2012
8600173	12	Arsenic	0.00077	µg/m3	SW846 6020A	Filter	12/15/2012
8600173	12	Lead	0.0030	µg/m3	SW846 6020A	Filter	12/15/2012
8600168	13	Arsenic	< 0.00015	µg/m3	SW846 6020A	Filter	12/15/2012
8600168	13	Lead	< 0.00015	µg/m3	SW846 6020A	Filter	12/15/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

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CHAIN OF CUSTODY RECORD

2012120404

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS														
AIR MONITORING		Pt Ruston LLC (HI-VOL)																		
SAMPLERS: (Signature)																				
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER															
12/11/12	OCF-VI		X		8600185	1	X													
12/11/12	OCF-NW		X		8600184	1	X													
12/11/12	OCF-VI		X		8600183	1	X													
12/11/12	OCF-NW		X		8600181	1	X													
12/12/12	OCF-VI		X		8600180	1	X													
12/12/12	OCF-NW		X		8600179	1	X													
12/13/12	OCF-VI		X		8600178	1	X													
12/13/12	OCF-NW		X		8600177	1	X													
12/14/12	OCF-VI		X		8600176	1	X													
12/14/12	OCF-NW		X		8600175	1	X													
12/15/12	OCF-VI		X		8600174	1	X													
12/15/12	OCF-NW		X		8600173	1	X													
12/17/12	Control				8600168	1	X													
12/17/12	HI-VOLUME SAMPLER LOG																			
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other								
<i>[Signature]</i>			12/17/12 14:30			<i>[Signature]</i>			Spectra			<i>[Signature]</i>								
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks											
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed:								
												<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter								
Split Samples:																				
[] Accepted [] Declined																				
Signature																				



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01/07/2013

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 12/26/2012
Spectra Project: 2012120565

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8600172	1	Arsenic	0.00097	µg/m3	SW846 6020A	Filter	12/17/2012
8600172	1	Lead	0.0055	µg/m3	SW846 6020A	Filter	12/17/2012
8600171	2	Arsenic	0.0030	µg/m3	SW846 6020A	Filter	12/17/2012
8600171	2	Lead	0.0046	µg/m3	SW846 6020A	Filter	12/17/2012
8600170	3	Arsenic	0.00077	µg/m3	SW846 6020A	Filter	12/18/2012
8600170	3	Lead	0.0015	µg/m3	SW846 6020A	Filter	12/18/2012
8600169	4	Arsenic	0.0010	µg/m3	SW846 6020A	Filter	12/18/2012
8600169	4	Lead	0.0017	µg/m3	SW846 6020A	Filter	12/18/2012
8600167	5	Arsenic	0.00076	µg/m3	SW846 6020A	Filter	12/19/2012
8600167	5	Lead	0.0027	µg/m3	SW846 6020A	Filter	12/19/2012
8600166	6	Arsenic	0.0010	µg/m3	SW846 6020A	Filter	12/19/2012
8600166	6	Lead	0.0077	µg/m3	SW846 6020A	Filter	12/19/2012
8600165	7	Arsenic	0.0031	µg/m3	SW846 6020A	Filter	12/20/2012
8600165	7	Lead	0.023	µg/m3	SW846 6020A	Filter	12/20/2012
8600164	8	Arsenic	0.0044	µg/m3	SW846 6020A	Filter	12/20/2012
8600164	8	Lead	0.015	µg/m3	SW846 6020A	Filter	12/20/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

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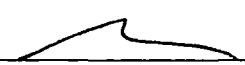
01/07/2013

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 12/26/2012
Spectra Project: 2012120565

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8600163	9	Arsenic	0.0053	µg/m3	SW846 6020A	Filter	12/21/2012
8600163	9	Lead	0.012	µg/m3	SW846 6020A	Filter	12/21/2012
8600162	10	Arsenic	0.0053	µg/m3	SW846 6020A	Filter	12/21/2012
8600162	10	Lead	0.012	µg/m3	SW846 6020A	Filter	12/21/2012
8600157	11	Arsenic	< 0.00015	µg/m3	SW846 6020A	Filter	12/26/2012
8600157	11	Lead	0.00023	µg/m3	SW846 6020A	Filter	12/26/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
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CHAIN OF CUSTODY RECORD

2012120565

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME				NO. OF CONTAINERS	REMARKS										
SAMPLERS: (Signature)																	
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER												
12/17/12	OCF VI		X		8600172	1	X										
12/17/12	OCF NW		X		8600171	1	X										
12/18/12	OCF VI		X		8600170	1	X										
12/18/12	OCF NW		X		8600169	1	X										
12/19/12	OCF VI		X		8600167	1	X										
12/19/12	OCF NW		X		8600166	1	X										
12/20/12	OCF VI		X		8600165	1	X										
12/20/12	OCF NW		X		8600164	1	X										
12/21/12	OCF VI		X		8600163	1	X										
12/21/12	OCF NW		X		8600162	1	X										
12/24/12	2.0m L21		X		8600157	1	X										
12/24/12	HI VOLUME SAMPLER LOG																
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other					
[Signature]			12/26/12 14:55			[Signature]			Spectra			Air Bill # [Signature]					
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks								
[Signature]			[Signature]			[Signature]											
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed:					
[Signature]			[Signature]			[Signature]			[Signature]			<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter					
Split Samples:																	
[] Accepted [] Declined																	
Signature																	



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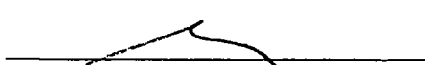
01/07/2013

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/31/2012
Spectra Project: 2012120630

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8600161	1	Arsenic	0.00059	µg/m3	SW846 6020A	Filter	12/26/2012
8600161	1	Lead	0.0019	µg/m3	SW846 6020A	Filter	12/26/2012
8600160	2	Arsenic	0.00084	µg/m3	SW846 6020A	Filter	12/26/2012
8600160	2	Lead	0.0023	µg/m3	SW846 6020A	Filter	12/26/2012
8600159	3	Arsenic	0.0031	µg/m3	SW846 6020A	Filter	12/27/2012
8600159	3	Lead	0.0060	µg/m3	SW846 6020A	Filter	12/27/2012
8600158	4	Arsenic	0.00021	µg/m3	SW846 6020A	Filter	12/27/2012
8600158	4	Lead	0.0037	µg/m3	SW846 6020A	Filter	12/27/2012
8600156	5	Arsenic	0.014	µg/m3	SW846 6020A	Filter	12/28/2012
8600156	5	Lead	0.0092	µg/m3	SW846 6020A	Filter	12/28/2012
8600155	6	Arsenic	0.011	µg/m3	SW846 6020A	Filter	12/28/2012
8600155	6	Lead	0.010	µg/m3	SW846 6020A	Filter	12/28/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

POINT RUSTON

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	REMARKS																																		
AIR MONITORING		POINT RUSTON, LLC																																					
SAMPLERS: (Signature)																																							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER																																		
12/26/12	OCF-VI		X		86000161																																		
12/26/12	OCF-NW		X		86000160																																		
12/27/12	OCF-VI		X		86000159																																		
12/27/12	OCF-NW		X		86000158																																		
12/28/12	OCF-VI		X		86000156																																		
12/28/12	OCF-NW		X		86000155																																		
12/31/12					HI-VOLUME SAMPLER LOG																																		
Relinquished (Signature)					Date/Time					Received by: (Signature)					Lab					Shipped via: FedEx, UPS or Other																			
Relinquished (Signature)					Date/Time					Received by: (Signature)					Remarks					Air Bill #																			
Relinquished (Signature)					Date/Time					Received for Laboratory by: (Signature)					Date/Time					Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter																			
COC Form - 7/12																				Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined										Signature									

Point Ruston
Particulate Network Summary - TSP
November 26, 2012 thru November 30, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m ³	m ³	µg/m ³	µg/m ³	
514087	South Gate	11/26/12	4.6018	4.6416	0.0398	1447	1863	1734	21	23	
514090	South Gate	11/27/12	4.6033	4.6642	0.0609	1424	1783	1657	34	37	
514093	South Gate	11/28/12	4.5985	4.6532	0.0547	1432	1783	1676	31	33	
514094	South Gate	11/29/12	4.5941	4.6198	0.0257	1443	1807	1740	14	15	
514095	South Gate	11/30/12	4.6024	4.6141	0.0117	1435	1787	1726	7	7	

Point Ruston
Particulate Network Summary - As and Pb
November 26, 2012 thru November 30, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m ³	µg/Filter	µg/m ³ As	µg/Filter	µg/m ³ Pb	
514087	South Gate	11/26/12	1734	5.69	0.003	6.65	0.003	
514090	South Gate	11/27/12	1657	8.08	0.004	20.3	0.012	
514093	South Gate	11/28/12	1676	6.82	0.004	13.2	0.007	
514094	South Gate	11/29/12	1740	4.58	0.002	5.10	0.002	
514095	South Gate	11/30/12	1726	<2.00	<0.001	<2.00	<0.001	

Point Ruston
Particulate Network Summary - TSP
December 03, 2012 thru December 07, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m ³	m ³	µg/m ³	µg/m ³	
514096	South Gate	12/03/12	4.5994	4.6109	0.0115	1444	1829	1732	6	7	
514097	South Gate	12/04/12	4.6129	4.6312	0.0183	1424	1843	1761	10	10	
514098	South Gate	12/05/12	4.6015	4.6213	0.0198	1430	1852	1725	11	11	
514099	South Gate	12/06/12	4.6142	4.6260	0.0118	1454	1872	1744	6	7	
514100	South Gate	12/07/12	4.6046	4.6239	0.0193	1428	1859	1736	10	11	

Point Ruston
Particulate Network Summary - As and Pb
December 03, 2012 thru December 07, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m ³	µg/Filter	µg/m ³ As	µg/Filter	µg/m ³ Pb	
514096	South Gate	12/03/12	1732	<2.00	<0.001	2.30	0.001	
514097	South Gate	12/04/12	1761	<2.00	<0.001	<2.00	<0.001	
514098	South Gate	12/05/12	1725	<2.00	<0.001	<2.00	<0.001	
514099	South Gate	12/06/12	1744	<2.00	<0.001	<2.00	<0.001	
514100	South Gate	12/07/12	1736	<2.00	<0.001	<2.00	<0.001	

Point Ruston
Particulate Network Summary - TSP
December 10, 2012 thru December 15, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m ³	m ³	µg/m ³	µg/m ³	
514101	South Gate	12/10/12	4.6044	4.6199	0.0155	1193	1562	1442	10	11	
514102	South Gate	12/11/12	4.5995	4.6077	0.0082	1424	1843	1741	4	5	
514103	South Gate	12/12/12	4.6053	4.6254	0.0201	1147	1485	1396	14	14	
514104	South Gate	12/13/12	4.5974	4.6119	0.0145	1272	1683	1572	9	9	
514105	South Gate	12/14/12	4.5905	4.6145	0.0240	1430	1882	1814	13	13	
514106	South Gate	12/15/12	4.6038	4.6122	0.0084	1435	1878	1761	4	5	

Point Ruston
Particulate Network Summary - As and Pb
December 10, 2012 thru December 15, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m ³	µg/Filter	µg/m ³ As	µg/Filter	µg/m ³ Pb	
514101	South Gate	12/10/12	1442	<2.00	<0.001	2.78	0.001	
514102	South Gate	12/11/12	1741	<2.00	<0.001	2.55	0.001	
514103	South Gate	12/12/12	1396	3.33	0.002	5.94	0.004	
514104	South Gate	12/13/12	1572	5.19	0.003	6.81	0.004	
514105	South Gate	12/14/12	1814	10.9	0.006	8.19	0.004	
514106	South Gate	12/15/12	1761	<2.00	<0.001	<2.00	<0.001	

Point Ruston
Particulate Network Summary - TSP
December 17, 2012 thru December 21, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m ³	m ³	µg/m ³	µg/m ³	
514107	South Gate	12/17/12	4.6087	4.6211	0.0124	1412	1868	1781	7	7	
514108	South Gate	12/18/12	4.5909	4.5990	0.0081	1434	1887	1752	4	5	
514109	South Gate	12/19/12	4.4117	4.4197	0.0080	1439	1853	1744	4	5	
514110	South Gate	12/20/12	4.4011	4.4234	0.0223	1436	1879	1777	12	13	
514111	South Gate	12/21/12	4.3991	4.4412	0.0421	1435	1858	1742	23	24	

Point Ruston
Particulate Network Summary - As and Pb
December 17, 2012 thru December 21, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m ³	µg/Filter	µg/m ³ As	µg/Filter	µg/m ³ Pb	
514107	South Gate	12/17/12	1781	<2.00	<0.001	<2.00	<0.001	
514108	South Gate	12/18/12	1752	<2.00	<0.001	2.54	0.001	
514109	South Gate	12/19/12	1744	<2.00	<0.001	<2.00	<0.001	
514110	South Gate	12/20/12	1777	3.85	0.002	4.19	0.002	
514111	South Gate	12/21/12	1742	5.24	0.003	10.1	0.005	

Point Ruston
Particulate Network Summary - TSP
December 26, 2012 thru December 28, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m ³	m ³	µg/m ³	µg/m ³	
514112	South Gate	12/26/12	4.3932	4.4007	0.0075	1439	1893	1774	4	4	
514113	South Gate	12/27/12	4.4268	4.4491	0.0223	1432	1885	1765	12	13	
514114	South Gate	12/29/12	4.4193	4.4635	0.0442	1435	1889	1769	23	25	

Point Ruston
Particulate Network Summary - As and Pb
December 26, 2012 thru December 28, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m ³	µg/Filter	µg/m ³ As	µg/Filter	µg/m ³ Pb	
514112	South Gate	12/26/12	1774	<2.00	<0.001	<2.00	<0.001	
514113	South Gate	12/27/12	1765	3.88	0.002	3.35	0.001	
514114	South Gate	12/29/12	1769	27.5	0.015	13.1	0.007	

Monthly Report 199, December 2012
Operable Unit 02
Asarco Tacoma Smelter Site

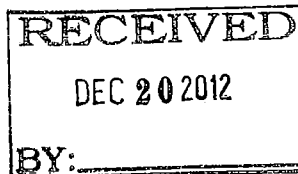
PORTABLE
AIR
MONITORING
DATA
(LOW VOLUME)

Reference	Date	Description
Spectra	12/18/2012	Spectra Laboratories – Portable air monitoring analysis for 11/27 thru 11/30
Spectra	12/18/2012	Spectra Laboratories – Portable air monitoring analysis for 12/06 thru 12/07
Spectra	12/18/2012	Spectra Laboratories – Portable air monitoring analysis for 12/10 thru 12/11
Spectra	01/11/2013	Spectra Laboratories – Portable air monitoring analysis for 12/27



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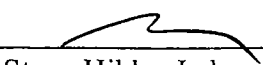
12/18/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring 2A
Date Received: 12/03/2012
Spectra Project: 2012120034

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
112712-181	1	TSP	< 100	µg/m3	Gravimetric	Air Cassette	11/27/2012
112712-181	1	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/27/2012
112712-181	1	Lead	0.010	µg/m3	SW846 6020A	Air Cassette	11/27/2012
112812-123	2	TSP	< 100	µg/m3	Gravimetric	Air Cassette	11/28/2012
112812-123	2	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/28/2012
112812-123	2	Lead	0.007	µg/m3	SW846 6020A	Air Cassette	11/28/2012
112912-250	3	TSP	< 100	µg/m3	Gravimetric	Air Cassette	11/29/2012
112912-250	3	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/29/2012
112912-250	3	Lead	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/29/2012
113012-500	4	TSP	< 100	µg/m3	Gravimetric	Air Cassette	11/30/2012
113012-500	4	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/30/2012
113012-500	4	Lead	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/30/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Spectra Project: 2012120034
Final Weights in Grams

Spectra #	Control Filter Wt., g	Test Filter Wt., g	Wt. Diff., g	Flow		Particulate Conc., ug/m ³
				Rate, L/min	Time, min.	
1	0.0471	0.0471	0.0000	2.3	442	0
2	0.0498	0.0498	0.0000	2.3	427	0
3	0.0479	0.0479	0.0000	2.3	417	0
4	0.0481	0.0481	0.0000	2.3	400	0

20211.0034

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

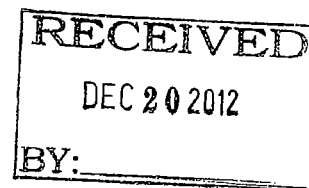


PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS									
SAMPLERS: (Signature)														
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER									
11/27/12	Bldg 2A SE		X		112712-181									
11/28/12	Bldg 2A SE		X		112812-123									
11/29/12	Bldg 2A SE		X		112912-250									
11/30/12	Bldg 2A SE		X		113012-500									
12/3/12					SAMPLE LOG INFO SHEETS (4)									
Relinquished (Signature)			Date/Time		Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other			
Relinquished (Signature)			Date/Time		Received by: (Signature)			Remarks			Air Bill #			
Relinquished (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time			Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter			
Split Samples: [] Accepted [] Declined														
Signature														



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12/18/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring 2A
Date Received: 12/10/2012
Spectra Project: 2012120220

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
120612-250	1	TSP	362	µg/m3	Gravimetric	Air Cassette	12/06/2012
120612-250	1	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	12/06/2012
120612-250	1	Lead	< 0.004	µg/m3	SW846 6020A	Air Cassette	12/06/2012
120712-123	2	TSP	121	µg/m3	Gravimetric	Air Cassette	12/07/2012
120712-123	2	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	12/07/2012
120712-123	2	Lead	< 0.004	µg/m3	SW846 6020A	Air Cassette	12/07/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Spectra Project: 2012120220
Final Weights in Grams

Spectra #	Control Filter Wt., g	Test Filter Wt., g	Wt. Diff., g	Flow	
				Rate, L/min	Time, min.
1	0.0477	0.0480	0.0003	2.3	360
2	0.0477	0.0478	0.0001	2.3	360

Particulate Conc., ug/m ³
362
121

2012120220

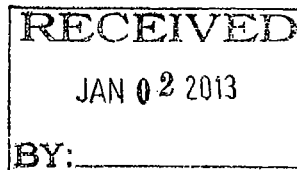
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Phone: 253-752-2185 Fax: 253-752-7083

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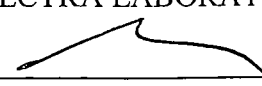
12/21/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring 2A
Date Received: 12/17/2012
Spectra Project: 2012120399

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
121012-500	1	TSP	449	µg/m3	Gravimetric	Air Cassette	12/10/2012
121012-500	1	Arsenic	0.052	µg/m3	SW846 6020A	Air Cassette	12/10/2012
121012-500	1	Lead	< 0.004	µg/m3	SW846 6020A	Air Cassette	12/10/2012
121112-250	2	TSP	< 100	µg/m3	Gravimetric	Air Cassette	12/11/2012
121112-250	2	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	12/11/2012
121112-250	2	Lead	< 0.004	µg/m3	SW846 6020A	Air Cassette	12/11/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

20121203 99

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Phone: 253-752-2185 Fax: 253-752-7083





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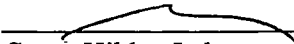
01/11/2013

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring 2A
Client ID: 122712-500
Sample Matrix: Air Cassette Filter
Date Sampled: 12/27/2012
Date Received: 01/02/2013
Spectra Project: 2013010006
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
TSP	114	µg/m3	Gravimetric
Arsenic	<0.004	µg/m3	SW846 6020A
Lead	<0.004	µg/m3	SW846 6020A

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a6/sgb

Page 1 of 1



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Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Spectra Project: 2013010006
Final Weights in Grams

Spectra #	Control Filter Wt., g	Test Filter Wt., g	Wt. Diff., g	Flow Rate, L/min	Time, min.
1	0.0477	0.0478	0.0001	2.3	380

Particulate Conc., $\mu\text{g}/\text{m}^3$ 114

POINT RUSTON

Phone: 253-752-2185

Fax: 253-752-7083



PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS					
AIR Monitoring		Pt Ruston LLC (Cassette)									
SAMPLERS: (Signature)											
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER						
12/27/12	Bldg 2A Ruston		X		122712-500	1	X				
1/2/13	SAMPLE LOG ENDS HERE										
Relinquished (Signature)			Date/Time		Received by: (Signature)			Remarks		Air Bill #	
Relinquished (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined						Signature					

Monthly Report 199, December 2012
Operable Unit 02
Asarco Tacoma Smelter Site

METHANE
MONITORING
DATA

Reference	Date	Description
Bldg 2B	12/12/12	Gas Monitoring Data Form / Calibration Worksheet
Bldg 2B	Dec. 2012	Methane Monitoring – DATA LOG

Gas Monitoring Data Form / Calibration Worksheet

Project Name: Building 2B

Date of Sampling: 12/12/12

Name of Sample Collector: Pat Wilbert

Gas Meter Information

Manufacturer: Industrial Scientific Model: M40 / SP40 Serial Number: 0806049-984
 Factory/Service Center Calibration Date of Gas Monitor: November 1, 2011 Pump Rate of Gas Meter: .5 SCFH (0.25 LPM)

Calibration Canister Information

Canister I.D. Lot: 463-2 Cyl: NA Calibration Gas: O₂, LEL, CO, H₂S, N Canister Exp.: 3/5/13

PRE-SAMPLE CALIBRATION:

Date: 12/12/12

Time: 9:14

Sensor SN	Sensor Type	Gas Type	Span Gas	Span Reserve	Passed/Failed	Alarm Low	Alarm High	Alarm TWA	Alarm STEL
806862459	Combustible-LEL	Methane	50	92	P				
805823354	Hydrogen Sulfide	Hydrogen Sulfide	25	46	P				
180339703081	Oxygen	Oxygen	19	3.7/30.4	P				

SAMPLING RECORD:

Temperature: 46.7 Barometric Pressure: 29.82 Ground Conditions: wet

Precipitation: 0-0 Tidal Conditions: _____

Wind Speed: 5 Direction: SW Other Relevant Conditions: overcast

Location Well ID#	Sample Tube Purge (Y/N)	Start Time	Stop Time	Initial % LEL	Stabilized % LEL	% CH ₄ By Volume	% O ₂	H ₂ S (ppm)	Notes
2BW001		9:29	9:39	0	0	0	20.9	0	
2BW002		9:41	9:52	0	0	0	21.1	0	
2BW003		9:54	10:04	0	0	0	20.6	0	
2BW004		10:07	10:18	0	0	0	20.3	0	

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct.

SIGNATURE: [Signature]

DATE: 12/12/12

METHANE MONITORING - DATA LOG

Point Ruston, LLC

Building 2B

Period	Well Location	Date Time	Temperature °C	Hydrogen Sulfide			Oxygen Reading	Combustible LEL (Methane) Reading
				Reading	TWA	STEL		
12	Calibrate	12/12/2012 9:14	21	0	0	0	20.9	0
13	Calibrate	12/12/2012 9:16	21	0	0	0	20.9	0
13	Calibrate	12/12/2012 9:17	21	25	0.05208333	1.666667	18.6	5
14	2BW001	12/12/2012 9:30	19	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:31	19	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:32	19	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:33	19	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:34	18	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:35	18	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:36	17	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:37	17	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:38	16	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:39	16	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:40	15	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:41	15	0	0.05208333	0	20.9	0
15	2BW002	12/12/2012 9:43	13	0	0.05208333	0	21.2	0
15	2BW002	12/12/2012 9:44	13	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:45	13	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:46	12	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:47	12	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:48	12	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:49	12	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:50	11	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:51	11	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:52	11	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:53	11	0	0.05208333	0	21.1	0
16	2BW003	12/12/2012 9:56	9	0	0.05208333	0	21.2	0
16	2BW003	12/12/2012 9:57	9	0	0.05208333	0	20.9	0
16	2BW003	12/12/2012 9:58	10	0	0.05208333	0	20.9	0
16	2BW003	12/12/2012 9:59	10	0	0.05208333	0	20.9	0
16	2BW003	12/12/2012 10:00	9	0	0.05208333	0	20.7	0
16	2BW003	12/12/2012 10:01	9	0	0.05208333	0	20.7	0
16	2BW003	12/12/2012 10:02	9	0	0.05208333	0	20.7	0
16	2BW003	12/12/2012 10:03	9	0	0.05208333	0	20.9	0
16	2BW003	12/12/2012 10:04	9	0	0.05208333	0	20.9	0
17	2BW004	12/12/2012 10:08	8	0	0.05208333	0	21.2	0
17	2BW004	12/12/2012 10:09	8	0	0.05208333	0	20.6	0
17	2BW004	12/12/2012 10:10	9	0	0.05208333	0	20.6	0
17	2BW004	12/12/2012 10:11	9	0	0.05208333	0	20.6	0
17	2BW004	12/12/2012 10:12	9	0	0.05208333	0	20.6	0
17	2BW004	12/12/2012 10:13	9	0	0.05208333	0	20.5	0
17	2BW004	12/12/2012 10:14	9	0	0.05208333	0	20.5	0
17	2BW004	12/12/2012 10:15	9	0	0.05208333	0	20.4	0
18	2BW004	12/12/2012 10:17	9	0	0.05208333	0	20.7	0
18	2BW004	12/12/2012 10:18	9	0	0.05208333	0	20.6	0
18	2BW004	12/12/2012 10:19	9	0	0.05208333	0	20.4	0
18	2BW004	12/12/2012 10:20	9	0	0.05208333	0	20.4	0

Month of December 2012

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12/20/2012

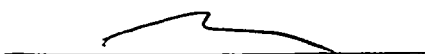
Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Water Walk
Client ID: CPDP-SAM-58-A1
Sample Matrix: Solid
Date Sampled: 12/03/2012
Date Received: 12/03/2012
Spectra Project: 2012120033
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Diesel	<25.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
PCB	<0.01	mg/Kg	SW846 8082A

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
p-Terphenyl	82	NWTPH-D
Decachlorobiphenyl	101	SW846 8082A

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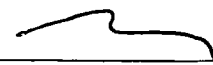
Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Water Walk
Client ID: CPDP-SAM-59-A1
Sample Matrix: Solid
Date Sampled: 12/04/2012
Date Received: 12/04/2012
Spectra Project: 2012120090
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Diesel	<25.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
PCB	<0.01	mg/Kg	SW846 8082A

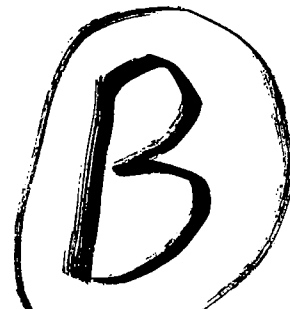
<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
p-Terphenyl	64	NWTPH-D
Decachlorobiphenyl	98	SW846 8082A

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2012/20090

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Project: Water Walk
Client ID: WWGR-SAM-60-A1
Sample Matrix: Soil
Date Sampled: 12/06/2012
Date Received: 12/06/2012
Spectra Project: 2012120157
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Diesel	<25.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
PCB	<0.01	mg/Kg	SW846 8082A

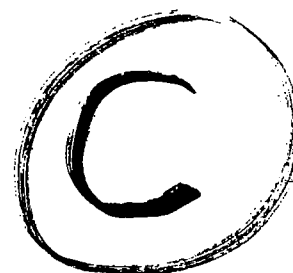
<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
p-Terphenyl	58	NWTPH-D
Decachlorobiphenyl	97	SW846 8082A

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2012120157

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01/04/2013

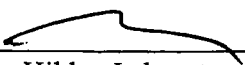
Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Phase 1
Client ID: MILES-SAM-05-A1
Sample Matrix: Solid
Date Sampled: 12/19/2012
Date Received: 12/19/2012
Spectra Project: 2012120464
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
PCB	<0.01	mg/Kg	SW846 8082A

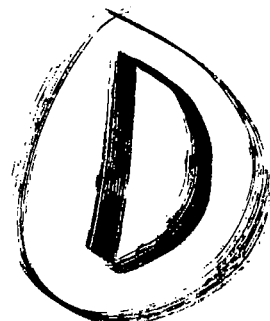
<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
Decachlorobiphenyl	96	SW846 8082A
p-Terphenyl	90	NWTPH-D

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2012120464

Fax: 253-752-7083



Monthly Report 199, December 2012
Operable Unit 02
Asarco Tacoma Smelter Site

MISCELLANEOUS
INFORMATION

Reference	Date	Description
Memo	12/27/12	Seismic Event

POINT RUSTON

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Tacoma, WA 98407
Phone: 253-752-2185
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MEMORANDUM

December 27, 2012

SUBJECT: RECENT AREA EARTHQUAKES (SEISMIC EVENTS)

The OCF-OMMP addresses response to earthquake events under section 2:

2.1.7 Earthquake Damage

"Should a significant seismic event occur in close proximity to the OCF, a post-earthquake inspection will be completed to assess potential damage to the OCF embankment and cover system. A two-tier inspection program will be used to allow for a rapid assessment of earthquake damage. The first-tier will consist of a preliminary inspection that will be followed up by a more detailed assessment and evaluation (second-tier). First-tier inspection activities will be initiated within 48 hours of the seismic event. The need and schedule for second-tier activities will be identified based on the results from the First-Tier inspection.

Table 2-4 identifies the requirements for potential earthquake inspection at the OCF."***

On December 26, 2012 at about 10:36 PM a 4.0 magnitude earthquake was reported approximately 100 miles north-northwest (NNW) of the Onsite Containment Facility (OCF), near Friday Harbor, WA. No known reports of tremors were felt in the South Puget Sound area. This event was considered to be a *non*-significant seismic event and a post-earthquake inspection of the OCF was not conducted.

Sincerely,

Tim Rusher
Construction Oversight/Health & Safety Officer

TABLE 2-4. POST-EARTHQUAKE DAMAGE INSPECTION REQUIREMENTS

Item	Inspection	First-Tier Inspection	Second-Tier Inspection
OCF Cap and Embankment	Visual damage	Inspect OCF cap for visual damage, gross displacements, cracked or damaged concrete or sidewalks, cracked embankment fill, sand boils from foundation outboard of embankment, damaged irrigation system and other visual damage.	Possible subsurface investigation of damaged areas and assessment of post-earthquake embankment stability.
Benchmarks	Horizontal and vertical displacement	Survey OCF benchmarks and tie with site wide controls.	Evaluate monument displacement. Assess need for and conduct ongoing monitoring.
LDCRS and LDCRS	Operation and leachate volumes	Inspect pumps, piping, electrical, leachate tank, vault, and instrumentation and phone dialer/alarm system.	Evaluate post-earthquake LDCRS flow rate and compare with rate for previous reporting period.
Cap underdrain systems	System integrity and function.	Complete visual inspection of manholes and drainpipe inverts, and drain system outfall.	Perform visual inspection of drain system operation during storm event following earthquake. Conduct subsurface investigation to evaluate integrity of drainpipe in areas of apparent damage.

****Comments regarding “*significant seismic event*”**

The United States Geological Society (USGS) defines a “Significant” earthquake as, “[E]arthquakes of magnitude 6.5 or greater or ones that caused fatalities, injuries or substantial damage”.

USGS historical listings of “significant” global earthquakes between 1977 and 2010 do not record any earthquakes below 3.0 magnitude. Earthquake magnitude, local shaking, damage reports and proximity should be considered when determining the level of inspection needed outlined in the OCF-OMMP.